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# ANNUAL PLANNING INFORMATION REPORT FISCAL YEAR 1980 BOSTON SMSA



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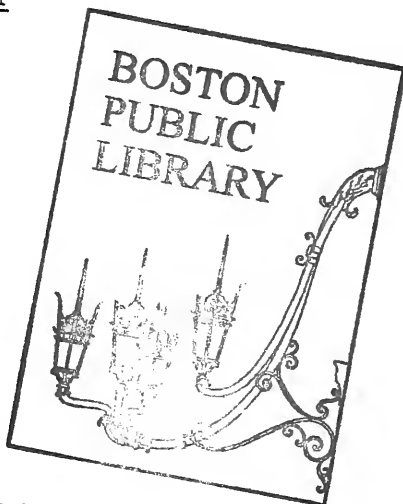
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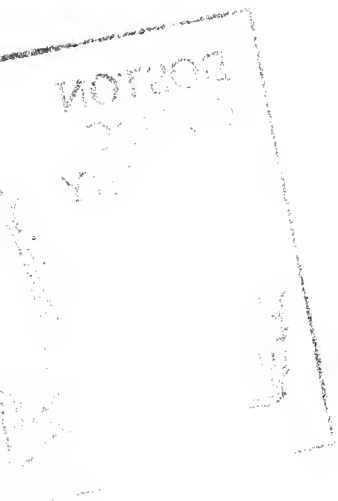
FISCAL YEAR 1980



STANDARD METROPOLITAN STATISTICAL AREA

BOSTON, MASSACHUSETTS

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## P R E F A C E

The Annual Planning Information Report is prepared in order to provide manpower planners information that will enable them to identify groups for whom services should be provided, the types of programs that would best serve these groups and the number and types of workers required to meet employer needs. It contains information regarding the number of persons needing various manpower services during the coming year, demographic and socio-economic information, anticipated labor market conditions and information on employment developments by industry and by occupation.

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## Table of Contents

	Page
I. Highlights and Conclusions.....	1
II. Description of Area	
A. Definition of Area.....	2
B. Population of Labor Force Characteristics.....	4
III. Employment Developments and Outlook By Industry.....	5
IV. Employment Developments and Outlook By Occupation	
A. Employment Projections by Occupation.....	31
B. Labor Demand Supply By Occupation.....	41
V. Unemployment Trends and Characteristics.....	52
VI. Estimate of Need for Manpower Services	
A. Fiscal Year 1980 Projections.....	82
B. Groups of Statutory Significance.....	93
C. Training Programs.....	98





## Table of Contents

Page

### Tables:

1. Population and Labor Force Characteristics -1970 Projected Fiscal Year 1980 Boston SMSA.....	4
2. Nonagricultural Wage and Salary Employment Boston SMSA - 1978.....	7
3. Annual Average Nonagricultural Wage and Salary Employment Boston SMSA 1970-1978.....	8
4. Annual Average Nonagricultural Wage and Salary Employment by Industry Massachusetts.....	10
5. Nonagricultural Wage and Salary Employment Percentage Changes by Industry.....	12
6. Covered Employment by CETA Area 1977.....	15
7. Labor Turnover Rates Manufacturing Industries Boston SMSA February 1979. . . . .	19
8. Average Weekly Hours and Hourly Earnings Massachusetts and Boston SMSA 1978.....	20
9. Hours and Earnings Manufacturing Industries Annual Averages Boston SMSA 1978.....	21
10. Total Employment by Industry Adjusted for Class Of Worker 1970-1974-1985 Boston SMSA.....	23
11. Job Openings by Industry Boston-Metro Job Bank March 1979.....	28
12. Average Annual Number of Job Openings by Occupation During 1974-1985 Period Boston SMSA.....	32
13. Boston SMSA - Active Applicants Boston Metro Job Bank Openings by Selected Occupational Categories January 1979.....	42



## Table of Contents

Page

### Tables (continued):

14. Job Openings by Occupational Group Boston-Metro Job Bank 4th Quarter 1978.....	48
15. Job Bank Openings Average Pay by Occupational Category Massachusetts Job Banks March 1979.....	49
16. Unemployment Boston SMSA 1978.....	53
17. Unemployment Rates for Boston SMSA- Massachusetts-United States 1970-1978.....	54
18. Boston SMSA Cities and Towns 1978 Annual Average Unemployment Rates.....	55
19. Unemployment Rates by CETA Area 1977-1978.....	56
20. Unemployment Rates for Boston SMSA vs Massachusetts v U.S.....	57
21. Boston SMSA Initial Claims Regular Program.....	58
22. Boston SMSA Continued Weeks Claimed Regular Program.....	59
23. Boston SMSA Benefit Payments by Industry by Month 1978.....	60
24. Selected Characteristics of the Insured Unemployed Boston Labor Area.....	62
25. Selected Characteristics of the Insured Unemployed Boston CETA.....	64
26. Selected Characteristics of the Insured Unemployed Cambridge CETA.....	66
27. Selected Characteristics of the Insured Unemployed Chelsea CETA.....	68
28. Selected Characteristics of the Insured Unemployed Lynn CETA.....	70
29. Selected Characteristics of the Insured Unemployed Medford CETA.....	72



## Table of Contents

Page

### Tables (continued):

30. Selected Characteristics of the Insured Unemployed Newton CETA.....	74
31. Selected Characteristics of the Insured Unemployed Norwood CETA.....	76
32. Selected Characteristics of the Insured Unemployed Quincy CETA.....	78
33. Selected Characteristics of the Insured Unemployed Salem CETA.....	80
34. Poverty Level Guidelines 1979.....	82
35. Population and Labor Force Projections Fiscal Year 1980 Boston SMSA.....	84
36. Additional Planning Data Projections Fiscal Year 1980 Boston SMSA.....	85
37. Additional Unemployment Projections Fiscal Year 1980 Boston SMSA.....	86
38. Population and Labor Force Composition Projections Fiscal Year 1980 Boston CETA.....	87
39. Additional Planning Data Projections Fiscal Year 1980 Boston CETA.....	88
40. Additional Unemployment Projections Fiscal Year 1980 Boston CETA.....	89
41. Population and Labor Force Composition Projections Fiscal Year 1980 EMHRDA.....	90
42. Additional Planning Data Projections Fiscal Year 1980 EMHRDA.....	91
43. Additional Unemployment Projections Fiscal Year 1980 EMHRDA.....	92
44. Characteristics of Applicants March 1979 Boston SMSA.....	94



## Table of Contents

	Page
<u>Tables (continued):</u>	
45. Cities and Towns Served by the Local Offices in the Boston SMSA.....	95
46. Characteristics of Applicants by Local Office March 1979 Boston SMSA.....	96
47. Claimant Characteristics by Local Office Boston SMSA December 1978.....	97
48. Selected WIN Registrant Characteristics Boston SMSA March 1979.....	99





## I. Highlights and Conclusions

Nonagriculture wage and salary employment in the Boston SMSA reached its highest level of the decade in 1978 with an annual average of 1,358,200 jobs. Employment gains were recorded in both the manufacturing and nonmanufacturing sectors, with manufacturing having a slightly higher growth rate, 4.7 percent versus 4.2 for nonmanufacturing. Within the manufacturing sector the largest advances were posted in transportation equipment and instruments.

The labor force continued its pattern of growth, with a 1978 annual average level of 1,366,478 a 2.1 percent increase from 1977. Accompanying this rise in the size of the labor force was a decline in unemployment in the SMSA. The annual average unemployment rate for 1978 was 5.9 percent, a decrease of 1.9 percentage points from 1977. This decline in unemployment is reflected in unemployment insurance activities, which showed a downward pattern during 1978.

Fiscal Year 1980 projections show a decreasing population for the SMSA, with total population down 2.4 percent from 1970. Despite the declining population, continued growth in the size of the labor force is projected, as labor force participation rates continue to increase. There will be certain groups within the SMSA's population that will be in need of assistance in order to obtain gainful employment. Among these are the economically disadvantaged, the long-term unemployed, individuals who have no job skills and youth. Among the programs available to assist these individuals are the CETA (Comprehensive Employment and Training Act) and WIN (Work Incentive Program).

## II. Description of Area

### A. Definition of Area

The Boston Standard Metropolitan Statistical Area (SMSA) consists of 17 cities and 65 towns with the city of Boston as its core. It is a geographic and economic entity which cuts across county lines. All of Suffolk County and parts of Essex, Middlesex, Norfolk, and Plymouth Counties are included.

The area is well served by north-south, east-west commercial over the road transportation routes, including interstate routes 95, 495 and 93. Logan Airport in Boston, which is the nation's eighth busiest, provides both interstate and international shipping facilities for the area's businesses and fast and convenient transportation for the population.

Cities		Towns		
Beverly	Abington	Duxbury	Medway	Stoneham
Boston	Acton	Frammingham	Middleton	Stoughton
Cambridge	Arlington	Franklin	Millis	Sudbury
Chelsea	Ashland	Foxborough	Milton	Swampscott
Everett	Bedford	Hamilton	Nahant	Topsfield
Lynn	Belmont	Hanover	Natick	Wakefield
Malden	Bellingham	Hanson	Needham	Walpole
Medford	Boxborough	Hingham	Norfolk	Watertown
Melrose	Boxford	Holbrook	No. Reading	Wayland
Newton	Braintree	Holliston	Norwell	Wellesley
Peabody	Brookline	Hull	Norwood	Wenham
Quincy	Burlington	Kingston	Pembroke	Weston
Revere	Canton	Lexington	Randolph	Westwood
Salem	Carlisle	Lincoln	Reading	Weymouth
Somerville	Cohasset	Lynnfield	Rockland	Wilmington
Waltham	Concord	Manchester	Saugus	Winchester
Woburn	Danvers	Marblehead	Scituate	Winthrop
	Dedham	Marshfield	Sharon	Wrentham
	Dover	Medfield	Sherborn	

The SMSA includes two prime sponsor CETA areas, and six subgrantee CETA areas.

Boston SMSA CETA areas:

Prime Sponsors

Boston

City of Boston

E.M.H.R.D.A.

Arlington  
Belmont  
Cambridge  
Somerville  
Watertown

Subgrantees

Medford

Burlington  
Everett  
Malden  
Medford  
Melrose  
North Reading  
Reading  
Stoneham  
Wakefield  
Wilmington  
Woburn  
Winchester

Quincy

Braintree  
Cohasset  
Hingham  
Holbrook  
Hull  
Milton  
Norwell  
Quincy  
Randolph  
Scituate  
Weymouth

Salem

Beverly  
Danvers  
Essex  
Gloucester  
Hamilton  
Ipswich  
Lynn  
Lynnfield  
Manchester  
Marblehead  
Middleton  
Nahant  
Peabody  
Rockport  
Salem  
Saugus  
Swampscott  
Topsfield  
Wenham

Norwood

Bellingham  
Canton  
Dedham  
Franklin  
Foxboro  
Medfield  
Millis  
Norfolk  
Norwood  
Plainville  
Sharon  
Walpole  
Westwood  
Wrentham

Newton

Bedford  
Brookline  
Dover  
Lexington  
Lincoln  
Needham  
Newton  
Waltham  
Wellesley  
Weston

Chelsea

Chelsea  
Revere  
Winthrop

## B. Population and Labor Force Characteristics

U. S. Department of Labor projections for fiscal year 1980 indicate declines in the populations of the Boston SMSA, the City of Boston, and the EMHRDA CETA Consortium area as compared to 1970 Census figures. Population for the Boston SMSA is projected to drop from a 1970 level of 2,887,510 to 2,819,159, down 2.4 percent, the city of Boston's population is projected to decline from 641,071 to 600,026, (-6.4 percent) and the EMHRDA CETA consortium will drop from 310,256 to 280,099 (-9.7 percent).

The labor force for the Boston SMSA for fiscal year 1980 is projected to continue its pattern of expansion reaching a level of 1,350,316. The increase in the size of the labor force despite a declining population is due to increasing labor force participation rates, especially for females, minorities and youth. The increase in the labor force participation rates for women is due to several factors among them, the rise of job opportunities for women that accompanied the expansion of the service sector of the economy, the increase in women's educational attainment, and the high cost of living which forces many wives to seek employment in order to supplement family income.

Table 1  
Population and Labor Force Characteristics  
1970 - Projected Fiscal Year 1980  
Boston SMSA

	1970			Projected Fiscal Year 1980		
	Popu- lation	Labor Force	Labor Force Participation Rate	Popu- lation	Labor Force	Labor Force Participati Rate
TOTAL	2,887,510	1,228,085	59.9	2,819,159	1,350,316	64.6
White Male	1,297,722	697,438	77.4	1,212,659	693,453	78.6
White Female	1,436,963	475,488	45.0	1,373,770	563,154	53.3
Nonwhite Male	71,617	30,118	70.7	105,330	47,839	74.1
Nonwhite Female	81,208	25,031	48.0	127,400	45,870	52.8

### III. Employment Developments and Outlook By Industry

#### Industry Developments

Nonagricultural wage and salary employment stood at 1,358,200 in 1978, the highest level of the decade. During 1978, a year of unprecedented growth for the seventies, an annual employment growth rate of 4.3 percent occurred, a gain of 55,900 jobs. However during the upcoming year employment growth is expected to be considerably lower, the result of an anticipated slowdown in the economy or even a possible recession. This section on Industry Developments contains tables for the Boston SMSA on nonagricultural employment by industry 1970 to 1978 with percentage changes for significant years. Also included, to facilitate comparison, are tables for the State of Massachusetts.

Manufacturing employment for 1978 was 280,600 an over the year gain of 4.7 percent or 12,500 jobs. Manufacturing employment is at its highest point in eight years, although it has not yet reattained the 1970 level of 288,300. This loss of manufacturing employment occurred essentially in the nondurable goods sector. Between 1970 and 1978 nondurable goods employment fell by better than 20 percent whereas durable goods employment increased by 10.6 percent over the same period.

Employment in the durable goods sector in 1978 was at the highest level of the decade. An overall 6.5 percent annual gain occurred in 1978 with substantial additions taking place in transportation equipment (+14.4 percent) and instruments (+8.9 percent).

Since 1970 tremendous growth has been exhibited by the instruments industry (+72.7 percent). Significant increases have also occurred in the fabricated metals (+24.1 percent) and transportation equipment (+17.7 percent) industries. Two durable goods segments which still haven't reached 1970 levels are the electrical machinery (-6.0 percent) industry and the industries in the other durable goods (-44.1 percent).

Employment in the nondurable goods sector hasn't fared as well as the durable goods sector during the seventies. In 1978 a marginal increase of 1.4 percent took place and since 1970 employment in this sector has dropped by better than 20 percent. Nondurable goods employment went from 123,200 in 1970 to 98,000 in 1978. During this period all industries experienced declines, with a single exception, chemicals, which rose 7.2 percent.

Nonmanufacturing, at 1,077,600 accounts for nearly 80 percent of all nonagricultural employment in the SMSA. Growth of 4.2 percent occurred in 1978. Since 1970 employment has moved forward by 7.1 percent an increase of 71,200 jobs. However this increase did not take place in all industries.

Construction at 41,400 in 1978 was 28.7 percent lower than the 1970 level. Transportation, Communications, and Utilities dropped by 11.1 percent, and wholesale and retail trade fell by 1.0 percent over the same time period. These decreases however, were more than offset by gains in the Service, Miscellaneous and Mining (+29.2 percent), Government (+7.6 percent), and Finance, Insurance, and Real Estate (+2.8 percent) industries of the nonmanufacturing sector.

Table 2  
Nonagricultural Wage and Salary Employment  
Boston SICA

1978  
(in 000's)

ITEM	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL AVERAGE
Nonagricultural Total	1315.4	1316.5	1333.3	1340.1	1358.0	1368.6	1363.6	1368.3	1371.2	1377.9	1384.9	1392.3	1358.2
Manufacturing Total	272.5	271.8	275.3	277.5	279.5	283.2	281.5	283.5	284.0	285.7	286.2	286.5	280.6
Durable Goods Total	175.8	175.6	177.5	179.3	180.7	183.8	183.7	185.0	186.1	187.5	188.1	188.3	182.6
Primary Metals	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.3	3.3	3.4	3.4	3.4	3.3
Fabricated Metals	20.7	20.6	20.8	20.8	20.5*	21.1**	21.0	21.2	21.3	21.6	21.7	21.7	21.1
Nonferrous Metals	35.3	35.0	35.5	35.8	36.0	36.8	36.8	37.0	37.0	37.2	37.4	37.5	36.4
Electrical Machinery	17.8	17.9	18.4	18.8	19.1	19.5	19.1	19.1	19.4	19.7	19.9	19.8	19.0
Transportation Equipment	22.5	22.4	22.7	22.9	23.5	24.0	24.0	24.4	24.9	24.9	25.0	25.2	23.9
Instruments	39.3	39.6	39.8	40.5	40.9	41.8	42.4	42.8	43.2	43.6	43.7	43.9	41.8
Other Durable Goods	6.9	6.8	7.0	7.2	7.4	7.3	7.2	7.2	7.0	7.1	7.0	6.8	7.1
Durable Goods Total	96.7	96.2	97.8	98.2	98.8	99.4	97.8	98.5	97.9	98.2	98.1	98.2	98.0
Food	16.6	16.5	16.8	16.6	16.6	16.5	16.6	16.5	16.5	16.3	16.2	16.2	16.5
Textiles	4.0	4.0	4.1	4.1	4.1	4.2	4.2	4.1	4.2	4.2	4.2	4.2	4.1
Apparel	13.3	13.6	13.7	13.9	14.0	14.1	13.6	13.8	13.6	13.6	13.6	13.5	13.7
Paper	9.3	9.0	9.3	9.4	9.4	9.6	9.4	9.5	9.4	9.4	9.3	9.4	9.4
Printing	23.3	23.2	23.3	23.4	23.7	23.8	23.4	23.5	23.6	23.7	23.9	24.0	23.6
Chemicals	8.8	8.7	8.8	8.8	8.8	9.0	9.0	9.0	8.9	9.0	9.1	9.1	8.9
Rubber	8.9	8.9	9.0	9.1	9.1	9.1	9.1	9.0	8.8	8.9	8.9	8.9	8.9
Leather	6.9	7.0	7.2	7.3	7.4	7.4	6.9	7.3	7.2	7.2	7.0	7.0	7.2
Other Nondurable Goods	5.6	5.3	5.6	5.6	5.7	5.7	5.7	5.7	5.7	5.9	5.9	5.9	5.7
Nonmanufacturing Total	1042.9	1044.7	1058.0	1070.6	1078.5	1085.4	1082.1	1084.8	1087.2	1092.2	1098.7	1105.8	1077.6
Contract Construction	35.4	33.5	34.9	35.6	42.1	44.2	45.3	46.2	45.8	45.2	43.2	41.5	41.4
Transportation & Public Utilities	67.4	67.2	67.5	68.0	68.2	68.5	66.7	66.8	68.6	68.3	68.6	66.7	67.9
Wholesale and Retail Trade	296.3	292.5	294.7	297.5	300.1	303.1	297.5	298.1	305.7	307.0	312.5	318.5	302.0
Finance, Insurance, Real Estate	96.4	96.5	97.1	97.6	97.8	99.0	99.3	98.6	98.8	98.4	98.9	98.1	98.1
Services, Miscellaneous and Government Total	345.7	351.8	360.0	364.0	366.6	365.4	365.5	367.3	368.5	371.8	373.2*	375.6	354.6
Government Total	201.7	203.2	203.8	203.9	203.7	205.2	207.8	207.8	199.8	201.5	202.6	202.6	203.6

1977 Benchmark

\* Strike \*\* Strike Over

Table 3  
Annual Average  
Nonagricultural Wage and Salary Employment By Industry  
Boston SMSA

Industry	1970	1971	1972	1973	1974	1975	1976	1977	1978
Nonagricultural Total	1,294.7	1,276.6	1,268.6	1,266.9	1,299.5	1,259.9	1,267.7	1,302.3	1,358.2
Manufacturing Total	283.3	271.1	272.5	277.1	276.4	251.6	257.0	263.1	280.6
Durable Goods	165.1	155.4	160.6	169.1	171.9	155.9	160.1	171.5	182.6
Primary Metals	3.3	3.0	3.2	3.4	3.7	3.2	3.2	3.3	3.3
Fabricated Metals	17.0	16.9	19.8	21.7	23.0	19.7	19.5	20.2	21.1
Machinery (ex. Elec.)	35.5	34.2	32.8	35.1	36.9	32.4	32.8	34.8	36.4
Electrical Machinery	52.1	46.6	41.3	43.8	44.8	41.0	43.5	47.1	49.0
Transportation Equipment	20.3	18.6	23.6	22.0	18.2	19.1	19.5	20.6	23.9
Instruments	24.2	24.2	31.7	34.8	37.0	33.9	35.0	39.4	41.8
Other Durable Goods	12.7	11.9	8.2	8.3	8.3	6.6	6.6	6.8	7.1
Non-durable Goods	123.2	115.7	111.9	108.0	104.5	95.7	96.9	96.6	98.0
Food & Kindred Products	22.9	21.4	19.8	18.6	17.7	16.7	17.1	16.6	16.5
Textile Mill Products	6.2	5.7	5.1	4.9	4.8	4.3	4.0	3.9	4.1
Apparel	16.8	15.4	15.4	14.8	14.3	13.3	13.5	13.4	13.7
Paper & Allied Products	11.3	10.8	10.8	10.9	10.6	8.7	9.5	9.5	9.4
Printing & Publishing	26.0	25.1	24.5	23.5	22.8	22.5	22.5	23.3	23.6
Chemicals & Allied	8.3	8.3	8.3	8.7	9.1	8.6	8.5	8.6	8.9
Rubber & Plastics Products	11.6	11.3	11.0	11.1	10.9	9.3	9.2	8.9	8.9
Leather & Leather Products	13.1	11.3	10.8	9.4	8.8	7.4	7.6	7.1	7.2
Other Non-durable Goods	7.0	6.4	6.2	6.1	5.5	4.9	5.0	5.3	5.7



Table 3  
Annual Average  
Homeworking Wage and Salary Employment By Industry  
Boston SWSA  
(continued)

Industry	1970	1971	1972	1973	1974	1975	1976	1977	1978
Manufacturing	1,006.4	1,005.5	996.1	1,019.8	1,023.1	1,008.2	1,010.7	1,034.2	1,077.6
Contract Construction	58.1	58.5	59.6	58.8	55.5	46.8	41.5	40.1	41.4
Transportation, Communications, and Utilities	76.4	74.6	77.7	78.8	75.9	69.7	68.1	64.2	67.9
Wholesale-Retail	305.1	299.8	297.1	300.9	298.1	292.9	292.1	296.4	302.0
Finance, Insurance and Real Estate	95.4	95.1	93.3	95.1	95.0	92.8	92.7	94.7	98.1
Services, Mining and Miscellaneous	282.1	286.3	278.3	296.2	308.9	312.6	321.9	377.4	364.6
Government	189.3	191.2	190.1	190.0	189.7	193.4	194.4	197.4	203.6

1970-1973 are on a 1974 Benchmark

1974 is on a 1975 Benchmark

1975 is on a 1976 Benchmark

1976-1978 are on a 1977 Benchmark

Table 4  
Annual Average  
Monocultural Wage and Salary Employment By Industry  
Massachusetts

Industry	1970	1971	1972	1973	1974	1975	1976	1977	1978
Monocultural - Total	2,261.7	2,224.2	2,251.7	2,333.5	2,353.7	2,272.4	2,314.4	2,395.6	2,498.9
Manufacturing - Total	648.3	600.2	610.2	634.7	639.3	577.8	593.6	619.1	647.3
Durable Goods	334.3	305.2	314.8	339.9	354.7	318.9	325.8	350.7	370.9
Ordnance	20.2	16.8	--	--	--	--	--	--	--
Lumber & Wood	4.6	4.5	5.6	5.8	5.4	4.4	4.9	5.4	5.8
Furniture & Fixtures	10.1	9.7	9.8	10.2	9.9	8.4	8.2	8.4	8.5
Stone, Clay & Glass	12.1	11.6	12.7	14.2	15.0	10.9	12.1	12.3	13.1
Primary Metals	19.8	17.1	14.0	16.2	17.3	15.5	16.1	16.9	17.1
Fabricated Metals	40.7	38.5	52.2	56.1	57.2	49.2	50.4	52.1	54.2
Machinery (exc. Elec.)	74.1	68.0	66.0	73.1	70.5	74.0	74.0	81.6	86.2
Electrical Machinery	95.2	84.6	81.6	88.1	93.7	82.8	83.8	90.7	96.9
Transportation Equipment	25.3	23.1	34.3	33.2	30.5	30.0	31.2	33.2	36.8
Instruments	32.2	31.3	38.6	43.0	47.2	43.7	45.1	50.1	52.3
Nondurable Goods	314.0	295.0	295.4	294.8	284.6	258.9	267.8	263.4	276.4
Food & Kindred Products	37.1	36.0	33.1	31.5	30.4	28.6	29.5	29.0	30.1
Textile Mill Products	31.2	28.8	31.0	31.1	29.7	25.2	27.7	27.9	28.8
Apparel	49.2	46.9	45.9	45.8	44.2	41.1	43.2	43.0	43.6
Paper & Allied Products	35.1	32.7	32.2	33.3	32.6	27.9	28.9	29.4	30.3
Printing & Publishing	45.0	42.5	43.9	43.5	42.0	40.3	41.0	42.2	43.0
Chemicals & Allied	19.4	18.4	19.5	20.3	20.9	19.8	18.4	17.3	17.5
Rubber & Plastic Products	33.6	31.3	32.2	34.6	33.7	27.8	29.6	30.0	31.0
Leather & Leather Products	35.9	31.8	30.4	26.8	24.1	23.0	24.1	22.7	22.8
Other Nondurable Goods	27.4	26.6	27.2	28.0	28.8	25.2	25.4	26.9	29.3

Table 4  
Annual Average  
Monocultural Wage and Salary Employment By Industry  
Massachusetts  
(continued)

Industry	1970	1971	1972	1973	1974	1975	1976	1977	1978
Nonmanufacturing	1,613.4	1,624.0	1,641.5	1,698.8	1,714.4	1,694.6	1,720.8	1,776.5	1,851.6
Contract Construction	100.2	102.5	107.2	107.9	97.1	79.8	71.7	70.6	74.1
Transportation, Communication and Public Utilities	117.3	117.0	121.5	123.5	123.6	113.7	112.8	113.8	116.1
Wholesale & Retail Trade	499.0	500.4	501.5	517.0	520.5	511.8	520.2	534.6	557.9
Finance, Insurance and Real Estate	129.8	130.2	138.8	133.7	136.9	135.1	135.3	134.6	142.5
Services, Miscellaneous	451.2	443.3	439.4	465.1	482.0	498.1	508.3	531.3	566.9
and Mining	319.9	330.6	373.1	351.6	354.3	365.1	372.5	387.6	394.1
Government	65.0	62.3	64.4	61.9	58.3	58.0	57.8	56.8	56.7
Federal	254.9	268.3	278.7	289.7	296.0	307.1	314.7	330.8	337.4
State and Local									

1970-1973 are on a 1974 Benchmark  
1974 is on a 1975 Benchmark  
1975 is on a 1976 Benchmark  
1976-1978 are on a 1977 Benchmark

Table 5  
Nonagricultural Wage and Salary Employment  
Percentage Changes By Industry

	1970-1973		1974-1975		1976-1977		1977-1978	
	Boston SMSA	Mass.	Boston SMSA	Mass.	Boston SMSA	Mass.	Boston SMSA	Mass.
Nonagricultural Total	4.9	10.5	- 3.0	- 3.5	2.7	3.5	4.3	4.3
Manufacturing Total	- 2.7	- 0.2	- 9.0	- 9.6	4.3	4.3	4.7	4.6
Durable Goods	10.6	10.9	- 9.3	-10.1	7.1	7.6	6.5	5.8
Primary Metals	--	-13.6	-13.5	-10.4	3.1	5.0	--	1.2
Fabricated Metals	24.1	33.2	-14.3	-14.0	3.6	3.4	4.5	4.0
Machinery (ex. Elec.)	- 2.5	16.3	-12.2	- 5.7	6.1	10.3	4.6	5.6
Electrical Machinery	- 6.0	1.8	- 8.5	-11.6	8.3	8.2	4.0	6.8
Transportation Equip.	17.7	45.5	- 4.9	- 1.6	7.2	6.4	14.4	10.8
Instruments	72.7	62.4	- 8.4	- 7.4	9.7	11.1	8.9	4.4
Nondurable Goods	-20.5	-12.0	- 8.4	- 9.0	- 0.3	0.2	1.4	3.0
Food & Kindred Products	-28.0	-18.9	- 5.6	- 5.9	- 2.9	- 1.7	- 0.6	3.8
Textile Mill Products	-33.9	7.7	-10.4	-12.2	- 2.5	0.7	5.1	3.2
Apparel	-18.5	-11.4	- 7.0	- 7.0	- 0.7	0.5	2.2	1.4
Paper & Allied Products	-16.8	-13.7	-17.9	-14.4	--	1.7	- 1.1	3.1
Printing & Publishing	- 9.2	- 4.4	- 1.3	- 4.0	3.6	2.9	1.3	1.9
Chemicals & Allied	7.2	- 9.8	- 5.5	- 5.3	1.2	- 6.0	3.5	1.2
Rubber & Plastics Products	-23.3	7.7	- 1.1	-17.5	- 3.3	1.4	--	3.3
Leather & Leather Products	-45.0	-36.5	-15.9	4.6	- 6.6	- 5.8	1.4	0.4
Other Nondurable Goods	-18.6	6.9	-10.9	-12.5	6.0	5.9	7.5	8.9

Table 5  
Nonagricultural Wage and Salary Employment  
Percentage Changes By Industry  
(continued)

	1970-1978		1974-1975		1976-1977		1977-1978	
	Boston SMSA	Mass.	Boston SMSA	Mass.	Boston SMSA	Mass.	Boston SMSA	Mass.
Nonmanufacturing	7.1	14.8	1.5	- 1.2	2.3	3.2	4.2	4.2
Contract Construction	-28.7	-26.0	-15.7	-17.8	- 3.4	1.5	3.2	5.0
Transportation, Utilities	-11.1	- 1.0	- 8.2	- 8.0	- 0.1	0.9	- 0.4	2.0
Wholesale-Retail	- 1.0	12.7	- 1.7	1.7	1.5	2.8	1.9	4.4
Finance, Insurance and								
Real Estate	2.8	9.8	- 2.3	- 1.3	2.2	2.4	3 6	2.8
Service, Mining and								
Miscellaneous	29.2	25.6	1.2	3.3	17.2	4.5	- 3.4	6.7
Government	7.6	23.2	1.5	3.0	1.5	4.1	3.1	1.7

Covered employment by CETA area for 1977 is contained in Table 6 . This refers to employment in establishments subject to the Massachusetts Employment Security Law. Information is provided for each CETA area in the SMSA and for the individual cities and towns that comprise each of these areas. Employment levels are also broken down by major industrial category in order to illustrate the industrial mix of the areas.

All of the CETA areas mirror the SMSA pattern of a greater concentration of employment in the nonmanufacturing sector. The Norwood CETA consortium has the highest incidence of manufacturing employment with 37.6 percent of all covered employment being in the manufacturing industries, with the Salem consortium having the second highest incidence with 33.7 percent of all employment occurring in manufacturing. The City of Boston Prime Sponsor has the lowest incidence of manufacturing employment with only 14.0 percent of total employment falling into the manufacturing sector.

Covered employment excludes for the most part employment in private, primary and secondary educational institutions, agriculture, domestic service, self employment and unpaid family service. Also excluded is employment in government whether covered or uncovered. However, beginning in 1978 coverage will be extended to include nearly all categories of workers.

Table 6  
Covered Employment By  
CETA Area  
1977

	Total Employment	Agri- culture Fishing Forestry	Mining	Construction	Manufacturing	Transp. & Comm. Utilities	Wholesale Retail Trade	Finance Insurance Real Estate	Services
Boston	382,306	630	34	12,216	53,621	32,732	82,338	60,312	140,125
EMHRDA									
Arlington	118,317	314	11	4,040	27,550	6,402	27,685	3,912	48,401
Belmont	5,356	35	0	431	281	722	1,903	382	1,604
Cambridge	4,842	34	0	267	414	366	1,397	284	2,074
Somerville	79,094	104	11	1,564	18,057	2,927	15,211	2,186	39,034
Watertown	15,968	29	0	1,368	3,017	992	6,299	518	3,755
	13,057	112	0	410	5,781	1,395	2,884	542	1,934
Chelsea	16,973	46	0	710	3,906	959	7,457	565	3,333
Chelsea	8,761	4	0	181	3,273	482	3,402	406	1,014
Revere	6,344	39	0	183	470	390	3,537	96	1,630
Winthrop	1,868	3	0	346	163	87	518	63	689
Medford	108,067	707	52	5,320	32,860	5,433	30,891	4,373	28,131
Burlington	17,615	75	12	492	6,591	278	5,622	564	3,981
Everett	10,392	11	0	836	3,972	720	2,124	333	2,396
Malden	16,051	18	27	874	2,717	1,780	3,735	710	6,191
Medford	11,940	55	0	920	1,634	837	4,426	338	3,730
Melrose	4,594	20	7	263	983	98	1,135	249	1,838
No. Reading	1,473	7	0	128	80	77	860	28	293
Reading	3,583	19	0	229	790	105	1,443	190	807
Stoneham	5,622	28	0	132	1,334	106	1,977	145	1,900
Wakefield	7,602	27	0	349	2,801	86	1,560	1,196	1,583
Wilmington	10,304	362	6	180	6,163	249	1,807	97	1,440
Winchester	4,039	24	0	363	879	374	693	177	1,529
Woburn	14,852	61	0	554	4,916	723	5,509	346	2,743

Table 6  
Covered Employment By  
CETA Area  
1977  
(continued)

	Total Employment	Agri- culture Forestry	Mining	Contract Construction	Manufacturing	Transp. & Comm. Utilities	Wholesale Retail Trade	Finance Insurance Real Estate	Services
Quincy	77,193	341	53	3,558	19,014	3,420	29,748	5,979	15,081
Braintree	18,783	46	13	758	3,669	841	9,084	1,101	3,271
Cohasset	1,336	6	0	45	127	16	657	80	405
Hingham	5,230	60	13	208	1,537	175	2,341	249	647
Holbrook	1,791	15	0	52	563	40	906	44	173
Hull	674	18	0	61	1	41	376	27	150
Milton	2,995	33	0	224	282	426	445	291	1,294
Norwell	1,330	4	0	153	51	27	698	45	352
Quincy	28,266	9	20	1,268	9,223	1,020	8,260	3,555	4,911
Randolph	6,144	12	0	209	1,982	109	2,893	164	774
Scituate	2,011	5	0	55	324	52	1,060	97	418
Weymouth	8,633	133	7	525	1,255	673	3,028	326	2,686
Salem	110,705	1,184	25	3,526	37,383	4,986	37,431	4,688	21,483
Beverly	9,946	23	1	461	3,294	329	2,716	366	2,757
Danvers	11,448	46	10	217	3,393	372	5,498	465	1,448
Essex	552	5	0	26	101	15	364	14	27
Gloucester	9,154	769	0	327	3,124	383	2,585	306	1,660
Hamilton	479	12	0	91	1	21	217	10	127
Ipswich	1,479	26	9	82	195	65	668	90	344
Lynn	31,544	25	0	578	15,668	1,429	6,520	1,160	6,164
Lynnfield	2,232	34	0	142	12	219	1,414	66	345
Manchester	604	44	0	49	45	22	281	22	141
Marblehead	2,958	28	0	151	796	98	1,025	149	711
Middleton	955	24	4	53	536	38	136	11	153
Nahant	328	4	0	55	4	1	136	4	124
Peabody	11,993	40	2	337	3,847	559	4,726	818	1,664
Rockport	1,084	5	0	57	182	26	497	49	268
Salem	16,309	20	0	439	5,395	1,019	4,562	922	3,952
Saugus	6,652	8	0	315	529	321	4,624	121	734
Swampscott	2,084	45	0	109	79	59	1,181	85	526
Topsfield	568	7	1	16	161	10	222	27	125



Table 6  
Covered Employment By  
CETA Area  
1977  
(continued)

	Total Employment	Agri- culture Forestry	Mining	Construction	Manufacturing	Transp. & Comm. Utilities	Wholesale Retail Trade	Finance Insurance Real Estate	Services
Newton	137,789	635	0	5,023	44,747	5,449	36,399	6,823	38,713
Bedford	11,722	16	0	115	7,928	149	1,030	63	2,421
Brookline	13,483	39	0	435	281	1,640	4,342	1,410	5,336
Dover	211	11	0	39	0	1	109	8	43
Lexington	11,854	47	0	255	4,733	726	2,652	411	3,030
Lincoln	597	9	0	30	13	3	178	22	342
Needham	10,518	146	0	1,073	2,969	237	4,131	341	1,621
Newton	30,967	160	0	1,562	4,265	1,152	11,162	1,748	10,397
Waltham	46,671	81	0	814	23,835	1,123	8,792	1,551	10,475
Wellesley	9,615	75	0	447	646	344	2,832	1,036	4,234
Weston	2,153	51	0	253	77	74	651	233	814
Norwood	75,884	318	60	3,534	28,566	3,508	24,185	3,196	12,515
Bellingham	1,193	16	0	136	205	28	685	11	112
Canton	10,514	39	0	513	4,644	279	3,728	394	917
Dedham	10,071	36	0	537	2,370	372	4,786	751	1,219
Foxborough	6,653	10	0	92	4,892	74	960	125	500
Franklin	2,874	31	0	146	1,057	74	897	77	592
Medfield	11,940	55	0	920	1,634	837	4,426	338	3,730
Medway	1,149	8	0	14	335	319	271	52	150
Millis	1,210	14	17	46	683	27	264	12	147
Norfolk	348	17	1	27	30	85	141	7	40
Norwood	15,872	31	0	389	7,261	359	3,452	1,073	3,306
Plainsville	1,959	9	24	166	1,175	27	383	32	143
Sharon	1,290	4	0	64	391	33	494	54	340
Walpole	6,017	18	19	165	2,794	558	2,002	115	346
Westwood	3,488	20	0	213	647	391	1,411	131	675
Wrentham	1,306	10	0	106	538	45	285	24	298

## Labor Turnover

During the month of February 1979 both total accessions and separations decreased substantially. The net flow into or out of employment which is the difference between total accessions and total separation recorded a zero balance during February.

The total accession rate fell to 2.6 down 0.8 from January, the result of a decline in both new hires and recalls. Nondurable goods firms posted a higher accession rate than did the durable goods firm, 2.9 as compared with 2.4. The apparel industry displayed the highest accession rate with 4.8 and fabricated metals industry the lowest with 1.3.

Total separations declined from 3.3 in January to 2.6 in February. Over the month the quit rate dropped from 1.4 to 1.1 while layoffs increased by 0.1 percent.

## Definitions

- Labor Turnover:** Gross movement of wage and salary workers into and out of jobs with respect to individual firms.
- Total Accessions:** All permanent or temporary additions, whether new or former employees.
- New Hires:** Permanent or temporary additions of persons who not have been specifically recalled by the employer, or transferred from another establishment of the same firm.
- Recalls:** Permanent or temporary additions to the employment roll of persons specifically recalled to a job in the same establishment of the company following a period of layoff lasting more than seven consecutive days.
- Total Separations:** Terminations of employment resulting from quits, discharges, layoff, transfers to another establishment of the same company, military duty and other miscellaneous causes.
- Quits:** Terminations of employment initiated by employee for any reason except to retire, to transfer to another establishment or the same company or to serve in the armed forces.
- Layoffs:** Suspensions for pay status (which last or are expected to last more than seven consecutive calendar days) initiated by the employer without prejudice to the worker for such reasons as lack of orders, model changeover, or termination of seasonal employment.

Table 7  
Labor Turnover Rates 1/  
Manufacturing Industries  
Boston SMSA  
February 1979

	Accession Rates						Separation Rates												
	Total			New Hires			Recalls			Total			Quits			Layoffs			
	Feb	Jan	Feb	Feb	Jan	Feb	Feb	Jan	Feb	Feb	Jan	Feb	Feb	Jan	Feb	Feb	Jan	Feb	
	'79	'79	'78	'79	'79	'78	'79	'79	'78	'79	'79	'78	'79	'79	'78	'79	'79	'78	
ALL MANUFACTURING	2.6	3.4	2.7	1.9	2.4	1.8	0.5	0.7	0.6	2.6	3.3	2.2	1.1	1.4	0.9	0.9	0.8	0.7	
	2.4	2.8	2.5	2.0	2.3	1.7	0.2	0.1	0.6	2.6	2.9	2.2	1.1	1.3	0.8	0.9	0.5	0.8	
	3.9	2.9	1.8	2.0	2.8	1.7	1.9	0.1	0.1	4.4	1.4	0.8	1.2	1.2	0.5	2.7	0.1	0.0	
	1.3	1.4	1.6	1.2	1.3	1.4	0.1	0.1	0.1	2.3	1.9	1.9	1.1	1.1	0.9	0.7	0.4	0.4	
	2.0	2.6	3.0	1.8	2.3	1.6	0.1	0.1	1.4	1.2	1.9	2.3	0.8	0.6	0.6	*	0.1	1.3	
	2.8	3.8	2.4	2.3	2.9	1.9	0.2	0.2	0.2	3.5	2.7	1.7	1.3	1.5	0.9	1.5	0.2	0.1	
	1.2	1.5	1.7	0.7	1.0	0.8	0.3	*	0.7	1.8	2.1	1.2	0.8	0.8	0.4	0.4	0.3	0.3	
	2.7	3.4	2.9	2.4	2.7	1.8	0.2	0.2	0.4	2.4	4.3	1.8	0.9	1.6	0.7	0.9	0.5	0.3	
	2.9	4.4	3.0	1.8	2.5	2.1	1.0	1.8	0.8	2.6	4.0	2.3	1.1	1.7	1.1	0.8	1.5	0.5	
	3.2	7.8	3.3	1.1	2.7	2.0	2.1	5.1	1.2	3.1	3.8	2.5	1.0	2.2	1.3	1.7	1.2	0.7	
Nondurable Goods	2.1	3.2	2.2	1.5	1.8	2.1	0.6	1.3	*	2.6	3.6	2.2	1.1	1.9	0.7	0.4	1.1	0.7	
	4.8	7.1	4.3	2.5	2.7	2.9	2.1	4.2	1.4	2.5	6.5	3.4	1.2	1.8	1.1	0.6	4.1	1.5	
	2.9	2.2	2.5	1.1	1.7	1.1	1.7	0.2	1.3	2.8	4.5	1.7	1.3	1.5	1.0	0.9	1.9	0.3	
	2.2	3.0	2.4	2.0	2.6	2.0	0.1	0.3	0.2	1.8	3.6	2.1	1.1	1.4	1.4	0.2	1.3	0.2	
	1.5	1.7	1.9	1.3	1.3	1.7	0.1	0.0	0.2	2.2	1.4	1.2	0.8	0.8	0.6	0.6	0.1	0.1	
	2.7	4.0	2.6	2.6	3.0	2.5	0.1	1.0	0.1	3.2	2.8	2.6	1.3	2.2	1.0	0.7	0.1	0.7	
	3.0	3.7	4.2	2.0	3.1	2.3	1.0	0.4	1.5	4.0	5.6	1.8	1.8	2.4	1.3	1.7	2.3	0.1	
	Food & Kindred	2.1	3.2	2.2	1.5	1.8	2.1	0.6	1.3	*	2.6	3.6	2.2	1.1	1.9	0.7	0.4	1.1	0.7
	Textiles	4.8	7.1	4.3	2.5	2.7	2.9	2.1	4.2	1.4	2.5	6.5	3.4	1.2	1.8	1.1	0.6	4.1	1.5
	Apparel & Other	2.9	2.2	2.5	1.1	1.7	1.1	1.7	0.2	1.3	2.8	4.5	1.7	1.3	1.5	1.0	0.9	1.9	0.3
Paper	2.2	3.0	2.4	2.0	2.6	2.0	0.1	0.3	0.2	1.8	3.6	2.1	1.1	1.4	1.4	0.2	1.3	0.2	
Printing	1.5	1.7	1.9	1.3	1.3	1.7	0.1	0.0	0.2	2.2	1.4	1.2	0.8	0.8	0.6	0.6	0.1	0.1	
Chemicals	2.7	4.0	2.6	2.6	3.0	2.5	0.1	1.0	0.1	3.2	2.8	2.6	1.3	2.2	1.0	0.7	0.1	0.7	
Rubber	3.0	3.7	4.2	2.0	3.1	2.3	1.0	0.4	1.5	4.0	5.6	1.8	1.8	2.4	1.3	1.7	2.3	0.1	
Leather																			

1/ Per 100 Employees

\* Less than 0.05

Average weekly hours for production workers in manufacturing industries in the Boston SMSA fluctuated throughout 1978, starting in January with 40.0 and ending the year with a December figure of 41.3, the highest level for the year. The lowest level was recorded in February with 35.0, as the effects of the blizzard were seen. Annual average weekly hours for the Boston SMSA compared favorably with the statewide annual average, 40.1 compared to 40.2 for the state.

Within the industry sectors durable goods producing firms had an annual average of 40.4 hours per week, with instruments having the highest level within the sector, recording 43.3 hours per week. The nondurable goods producing firms did not fare as well overall, averaging 39.6 hours per week for 1978. This sector had both the highest and lowest weekly hours for 1978, the high being in the textile industry with 44.7 and the low occurring in leather with 36.5.

Annual average 1978 hourly earnings for production workers in the Boston SMSA stood at \$6.09 per hour. The highest hourly wage was posted in the Transportation Equipment Industry within the durable goods sector, with an annual average of \$7.52 per hour. The lowest annual average hourly earnings occurred in the textile industry with \$4.06 per hour. The overall annual average of \$6.09 per hour was 9.9 percent higher than the statewide figure of \$5.54 per hour.

Table 8  
Average Weekly Hours and Hourly Earnings  
Massachusetts and Boston SMSA  
1978

	Average Hours		Average Hourly Earnings	
	Mass.	Boston SMSA	Mass.	Boston SMSA
January	40.2	40.0	\$5.36	\$5.86
February	37.0	35.0	5.43	6.05
March	40.7	40.6	5.43	5.97
April	40.6	40.6	5.42	6.00
May	40.3	40.5	5.48	5.99
June	41.0	41.0	5.50	6.04
July	40.0	39.6	5.52	6.08
August	40.1	39.9	5.59	6.08
September	40.8	41.3	5.63	6.19
October	39.6	39.8	5.67	6.18
November	40.7	41.3	5.70	6.26
December	41.2	41.3	5.77	6.33
Annual Average	40.2	40.1	5.54	6.09

Table 9  
Hours and Earnings  
Manufacturing Industries  
Annual Averages  
Boston SMSA  
1978

Industry	Average Weekly Earnings	Average Weekly Hours	Average Hourly Earnings
Manufacturing	\$244.21	40.1	\$6.09
Durable Goods	256.54	40.4	6.35
Primary Metals	235.13	40.4	5.82
Fabricated Metals	256.62	42.0	6.11
Nonelectrical			
Machinery	259.20	40.0	6.48
Electrical Machinery	217.95	39.2	5.56
Transportation			
Equipment	277.49	36.9	7.52
Instruments	287.51	43.3	6.64
Nondurable Goods	224.53	39.6	5.67
Food	252.68	40.3	6.27
Textiles	217.24	44.7	4.86
Apparel	149.81	36.9	4.06
Paper	236.29	41.6	5.68
Printing	271.74	37.9	7.17
Chemicals	280.13	41.5	6.75
Rubber	219.14	39.7	5.52
Leather	159.87	36.5	4.38

The following table contains information on employment levels by industry for 1974 and projected 1985 levels. It is estimated that by 1985 approximately 107,150 new jobs will have been created in the Boston SMSA.

The largest gain due to growth will be in the service producing industries, in keeping with the general trend of a shift from a goods producing to a service producing economy. Within the service producing segment, the service industries will have the greatest gain in employment especially in the medical sector. Business services are also expected to experience rapid growth. Another expanding industry within this sector will be wholesale and retail trade, with an anticipated annual growth rate of 1.0 percent. Finance, Insurance and Real Estate will experience moderate growth during the eleven year period 1974-1985. Slight increases will be experienced in the transportation and public utilities and government payrolls.

The manufacturing sector is projected to experience a decrease in the number of jobs. Corresponding to the expected decrease in employment, there will be a decline in manufacturing's relative share of total employment. Although the durable goods producing industries are expected to have a positive growth rate, this effect will be more than offset by the declines in the nondurable goods industries resulting in an overall decline in manufacturing payrolls.

It is important to view these projections in terms of relative magnitude and general tendencies, rather than as actual employment levels. However use of this data as indicators of probable direction and relationships can be helpful to those concerned with studying labor demand within the Boston SMSA.

Table 10

TOTAL EMPLOYMENT BY INDUSTRY ADJUSTED FOR CLASS OF WORKER  
1970 - 1974 - 1985  
BOSTON SMSA

INDUSTRY TITLE	EMPLOYMENT			NET CHANGES	
	1970	1974	1985	1970-1974	1974-1985
TOTAL, ALL INDUSTRIES	1,320,847	1,320,929	1,428,084	82	107,155
AGRICULTURE, FORESTRY, & FISHERIES	6,352	7,726	7,081	1,374	-645
Agriculture	5,612	6,937	6,360	1,325	-577
Agriculture Production	3,053	3,329	2,418	266	-911
Agriculture Services, Except Horticultural	1,061	1,667	1,838	606	171
Horticultural Services	1,488	1,941	2,104	453	163
Forestry	206	249	264	43	15
Fishing	574	540	457	6	-83
MINING	288	260	204	-28	-56
Metal Mining	1	1	1	0	0
Nonmetal Mining	1	1	1	0	0
Petroleum & Natural Gas Extraction	6	0	0	-6	0
Metallic Mining, & Quarrying, except Fuel	280	258	202	-22	-56
CONSTRUCTION	72,553	70,524	75,600	-2,029	5,076
General Building Contractors	22,472	21,125	22,192	-1,287	1,067
Mechanical Contractors, Except Building	14,069	13,395	13,659	-674	264
Electrical & Mechanical Trade Contractors	36,012	35,944	39,749	-68	3,805
MANUFACTURING	294,119	273,293	268,826	-20,826	-4,467
Food & Allied Products	176,561	173,143	180,925	-3,418	7,782
Textile & Apparel	4,979	4,650	4,848	-329	198
Lumber & Wood Products, Except Furniture	1,663	1,575	1,349	-88	-226
Logging	33	27	24	-6	-3
Sawmills, Planing Mills, & Mill Work	681	404	284	-187	-210
Miscellaneous Wood Products	949	1,054	1,041	105	-13
Furniture & Fixtures	3,210	2,781	2,357	-429	-424
Stone, Clay & Glass Products	3,197	3,884	4,091	687	207
Glass & Glass Products	160	265	188	105	-77
Cement, Concrete, Gypsum, & Plaster Products	1,378	1,520	1,719	142	199
Structural Clay Products	24	24	27	0	3
Pottery & Related Products	70	47	58	-23	11
Miscellaneous Nonmetallic Mineral & Stone Products	1,565	2,028	2,099	463	71
Primary Metal Production	3,257	3,893	3,242	636	-651
Blast Furnaces, Steel Works, Rolling & Fin. Mills	442	526	439	84	-87
Other Primary Iron & Steel Industries	1,147	1,311	1,091	164	-220
Primary Aluminum Industries	445	525	437	80	-88
Other Primary Nonferrous Industries	1,223	1,551	1,275	328	-276
Fabricated Metal Products	17,027	20,139	20,942	3,112	803
Cutlery, Hand Tools, & Other Hardware	4,510	6,392	7,259	1,882	867
Fabricated Structural Metal Products	4,153	4,383	4,304	230	-79
Screw Machine Products	1,885	1,834	1,461	-51	-373
Metal Stamping	1,221	1,129	846	-92	-283
Misc. Fabricated Metal Products	5,258	6,401	6,982	1,143	581
Machinery, Except Electrical	35,410	37,909	40,013	2,499	2,104
Engines & Turbines	5,500	6,105	6,881	605	776
Farm Machinery & Equipment	74	102	100	28	-2
Construction & Material Handling Machines	1,356	800	606	-556	-194
Metalworking Machinery	2,147	2,690	2,571	543	-119
Office & Accounting Machines	1,001	1,422	1,742	421	320
Electronic Computing Equipment	8,010	11,257	13,795	3,247	2,538
Machinery, Except Electrical, N.E.C.	17,322	15,533	14,328	-1,789	-1,205

Table 10  
(continued)

BOSTON, MASS.

INDUSTRY TITLE	EMPLOYMENT			NET CHANGE	
	1970	1974	1985	1970-1974	1974-1985
Electrical Machinery, Equipment & Supplies	52,284	49,363	49,954	-2,921	591
Household Appliances	863	1,196	900	333	-296
Radio, TV, & Communication Equipment	16,127	16,048	16,167	-79	119
Electrical Machinery, Equip. & Supplies, N.E.C.	35,294	32,119	32,887	-3,175	768
Transportation Equipment	25,856	13,740	16,460	-12,116	2,720
Motor Vehicles & Motor Vehicle Equipment	3,210	2,027	3,451	-1,183	1,424
Aircraft & Parts	8,403	7,777	7,114	-626	-663
Ship & Boat Building & Repairing	14,137	3,834	5,778	-10,303	1,944
Railroad Locomotives & Equipment	0	0	0	0	0
Mobile Dwellings & Campers	17	17	20	0	3
Cycles & Misc. Transportation Equipment	89	85	97	-4	12
Prof., Scientific Instr., Photo. Equip. & Watches	23,107	30,529	32,920	7,422	2,391
Scientific & Controlling Instruments	8,892	10,546	11,107	1,654	561
Optical & Health Services Supplies	2,856	6,797	7,587	3,941	790
Photographic Equipment & Supplies	9,169	11,260	12,535	2,091	1,275
Watches, Clocks, & Clockwork Operated Devices	2,190	1,926	1,691	-264	-235
Miscellaneous Manufacturing Industries	6,571	4,620	4,749	-1,891	129
NONDURABLE GOODS	117,558	100,150	87,901	-17,408	-12,249
Food & Kindred Products	22,656	17,625	13,702	-5,031	-3,923
Meat Products	3,269	2,872	2,456	-397	-416
Dairy Products	4,367	2,920	2,017	-1,447	-903
Canning & Preserving	1,413	1,164	973	-249	-191
Grain Mill Products	334	454	387	120	-67
Bakery Products	4,246	3,831	3,012	-415	-819
Confectionary & Related Products	4,112	2,610	1,357	-1,502	-1,253
Beverage Industries	2,806	2,291	2,010	-515	-281
Misc. Food Preparation & Kindred Products	2,109	1,483	1,750	-626	267
Tobacco Manufacturing	0	0	0	0	0
Textile Mill Products	6,341	5,530	4,521	-811	-1,009
Knitting Mills	1,229	1,173	582	-66	-591
Dyeing & Finishing Textiles, Exc. Wool & Knit Goods	101	168	162	67	-6
Floor Coverings, Except Hard Surfaces	613	91	180	-522	81
Yarn, Thread, & Fabric Mills	1,319	1,358	645	39	-813
Misc. Textile Mill Products	3,079	2,740	3,052	-339	312
Apparel & Other Fabricated Textile Products	17,216	13,927	11,057	-3,289	-2,870
Apparel & Accessories	13,650	10,857	7,908	-2,793	-2,949
Misc. Fabricated Textile Products	3,566	3,070	3,149	-496	79
Paper & Allied Products	11,046	10,471	9,675	-575	-796
Pulp, Paper, & Paperboard Mills	1,465	1,418	1,109	-47	-309
Paperboard Containers & Boxes	4,488	3,790	3,403	-698	-387
Misc. Paper & Pulp Products	5,093	5,253	5,163	170	-10
Printing, Publishing, & Allied Products	26,698	23,733	23,866	-2,965	133
Newspaper Publishing & Printing	8,689	8,192	7,209	-497	-983
Printing, Publishing, & Allied Prod., Exc. Newspapers	18,009	15,541	16,657	-2,468	1,116
Chemicals & Allied Products	8,272	8,799	8,844	527	45
Industrial Chemicals	1,223	1,272	1,105	-51	-168
Plastics, Synthetics & Resins, Except Fibers	868	1,133	1,199	265	66
Synthetic Fibers	4	11	10	7	-1
Drugs & Medicines	540	883	1,225	343	342
Soaps & Cosmetics	1,996	1,654	1,544	-342	-110
Paints, Varnishes, & Related Products	872	909	725	37	-184
Agricultural Chemicals	84	100	80	16	-20
Miscellaneous Chemicals	2,585	2,837	2,956	252	119
Petroleum & Coal Products	601	661	758	60	97
Petroleum Refining	6	5	5	-1	0
Misc. Petroleum & Coal Products	595	656	753	61	97
Rubber & Misc. Plastic Products	11,418	10,997	9,499	-421	-1,498
Rubber Products	8,154	7,234	5,705	-920	-1,529
Misc. Plastic Products	3,264	3,763	3,794	499	3



TABLE 10 (Continued)  
BOSTON, SNEA

INDUSTRY TITLE	EMPLOYMENT			NET CHANGES	
	1970	1974	1985	1970-1974	1974-1985
Other & Leather Products	13,310	8,407	5,979	-4,903	-2,428
anned, Curried, & Finished Leather	3,234	2,397	1,101	-837	-1,296
Footwear, Except Rubber	9,468	5,501	4,508	-3,967	-993
Leather Products, Except Footwear	608	509	370	-99	-139
TRANSPORTATION, COMMUNICATIONS & OTHER PUBLIC UTIL.					
Transportation, Total	82,481	80,687	83,356	-1,794	2,469
Roads, & Railway Express Services	46,307	42,743	44,320	-3,564	1,577
al, Interurban Transit	4,473	3,286	2,633	-1,187	-653
Street Railways, Bus Line	11,531	12,431	12,956	900	525
Taxicab Service	8,174	8,466	8,951	292	485
Shipping & Warehousing	3,357	3,965	4,005	608	40
Trucking Service	18,079	16,211	17,391	-1,868	1,180
Warehousing & Storage	16,948	15,121	16,220	-1,827	1,099
Air Transportation	1,131	1,090	1,171	-41	81
Water Transportation	2,604	1,921	1,965	-683	44
Relines	6,998	6,002	6,297	-996	295
Transportation Services	34	1	0	-33	-1
Communications, Utilities, & Sanitary Services	2,588	2,891	3,078	303	187
Communications	26,174	37,944	38,336	1,770	892
Telephone (Wire & Radio)	23,098	25,302	25,632	2,204	330
Telegraph (Misc. Communications Service)	21,085	22,751	22,656	1,666	-95
Radio Broadcasting, TV	768	652	567	-116	-85
Utilities & Sanitary Services	1,245	1,399	2,409	654	510
Electric Light & Power	13,076	12,642	13,204	-434	562
Electric-gas Utilities	6,281	5,629	5,812	-652	183
Gas & Steam Supply Systems	235	131	144	-104	13
Water Supply	2,827	2,842	2,939	15	97
Sanitary Services	1,182	1,231	1,186	-51	-55
Other Utilities, N.E.C.	2,528	2,886	3,100	358	214
	23	23	23	0	0
WHOLESALE & RETAIL TRADE					
Wholesale Trade	309,923	309,011	341,831	-912	32,820
Wholesale, Except Misc. Wholesale	81,810	79,743	84,788	-2,067	5,045
Motor Vehicles & Equipment	57,921	53,114	58,769	-2,807	3,655
Drugs, Chemicals, & Allied Products	4,663	4,858	4,997	195	139
Dry Goods & Apparel	4,479	3,923	4,161	-556	238
Food & Related Products	5,285	6,064	6,329	779	265
Farm Products - Raw Materials	12,691	10,996	10,359	-1,695	-637
Electrical Goods	503	428	412	-75	-16
Hardware, Plumbing	10,235	8,879	10,567	-1,356	1,688
Machinery Equipment Supplies	3,782	4,016	4,396	234	380
Scellaneous Wholesale Trade	16,283	15,950	17,548	-333	1,558
Metals & Minerals, N.E.C.	23,889	24,629	26,019	740	1,390
Petroleum Products	2,631	2,628	2,769	-3	141
Scrap & Waste Material	2,339	2,582	2,724	243	142
Alcoholic Beverages	1,374	1,537	1,636	163	99
Paper & Paper Products	1,720	1,681	1,992	161	111
Lumber & Construction Materials	3,061	2,985	3,153	-76	168
Wholesale, N.E.C.	2,772	2,831	2,989	59	158
	9,992	10,185	10,756	193	571
RETAIL TRADE					
Building Materials	228,113	229,268	257,043	1,155	27,775
Lumber, Building Material	8,174	8,229	8,767	55	538
Hardware & Farm Equipment	5,972	6,041	6,328	69	287
General Merchandise, Total	2,202	2,188	2,439	-14	251
Department, Mail Order	50,248	42,596	50,629	-7,552	7,933
Limited Price Stores	37,979	32,365	38,556	-5,614	6,491
Vending Machine Operators	5,734	3,392	2,557	-2,342	-835
Direct Selling	1,393	1,268	1,798	-125	520
Misc. Merchandise Stores	2,408	2,516	3,613	108	1,097
	2,734	3,155	3,815	421	660

TABLE 10 (Continued)

BOSTON, U.S.A.

INDUSTRY TITLE	EMPLOYMENT			NET CHG.	
	1970	1974	1985	1970-1974	1974-1985
Food & Dairy Stores	41,329	40,356	43,283	-973	2,927
Grocery Stores	31,800	33,173	36,073	1,373	2,900
Dairy Product Stores	1,886	1,222	1,367	-664	145
Retail Bakeries	2,608	2,442	1,960	-166	-482
Food Stores, N.E.C.	5,035	3,519	3,883	-1,516	364
Auto Dealers, Gas Stations	20,694	20,544	22,010	-150	1,466
Motor Vehicle Dealers	9,473	10,050	10,483	577	433
Tire, Battery, Accessory	1,554	1,872	2,194	318	322
Gasoline Service Stations	9,155	7,908	8,513	-1,247	605
Miscellaneous Vehicle Dealers	512	714	820	202	106
Apparel & Accessories	15,976	17,564	18,696	1,588	1,132
Apparel, Accessories Stores	12,427	13,633	14,323	1,206	690
Shoe Stores	3,549	3,931	4,373	382	442
Furniture & Appliances	9,563	10,490	12,560	927	2,070
Home Furnishing Stores	5,252	5,352	5,671	100	319
Appliance, TV, Radio Stores	4,311	5,138	6,889	827	1,751
Eating & Drinking Places	52,570	58,640	67,890	6,070	9,250
Misc. Retail Trade Stores	29,559	30,749	33,208	1,190	2,459
Drug Stores	7,435	7,084	7,053	-351	-29
Liquor Stores	3,420	3,479	3,659	59	180
Farm, Garden Supply Stores	311	367	379	56	12
Jewelry Stores	1,910	1,824	1,920	-86	96
Fuel & Ice Dealers	4,002	4,083	3,571	81	-512
Retail Florists	1,013	1,227	1,440	214	213
Misc. Retail Trade Stores	11,468	12,685	15,186	1,217	2,501
FINANCE, INSURANCE, & REAL ESTATE	96,920	100,773	110,717	3,853	9,944
Finance, Total	37,144	38,046	43,620	902	5,574
Banking	25,686	26,799	31,869	813	5,070
Credit Agencies	3,121	3,492	3,497	361	0
Stock Brokers, Investment	8,037	7,765	8,254	-272	489
Insurance	46,036	45,726	48,646	-310	2,920
Real Estate, RE Law Insurance	13,740	17,001	18,451	3,261	1,450
SERVICES, TOTAL	385,280	413,619	473,429	28,339	59,810
Hotels & Lodging Places	9,603	10,542	12,280	939	1,738
Hotels & Motels	8,051	8,831	10,240	780	1,409
Lodging Places, Except Hotels	1,552	1,711	2,040	159	329
Other Personal Services	21,750	18,797	15,720	-2,953	-3,077
Laundry, Cleaning	9,775	7,679	5,292	-2,096	-2,387
Beauty Shops	6,318	6,016	5,921	-302	-95
Barber Shops	2,182	1,318	1,109	-364	-209
Shoe Repair Shops	399	269	179	-130	-90
Dressmaking Shops	392	366	372	-26	6
Other Personal Services	2,684	2,649	2,887	-35	238
Miscellaneous Business Services	51,019	55,992	60,810	4,973	4,818
Advertising	2,104	2,175	2,300	71	125
Business Management Services	4,218	4,325	4,479	107	154
Commercial R. & D.	2,574	3,723	4,010	1,149	287
Computer Programming	2,941	2,811	3,066	-130	255
Detective & Protective	2,536	2,634	2,881	98	247
Employment, Temporary Help	3,237	3,078	3,480	-159	402
Services, Buildings	7,481	8,431	10,198	950	1,767
Other Misc. Business Services	29,928	28,815	30,396	2,567	1,581
Automobile Repair Services	8,353	9,059	9,688	706	629
Auto Repair	4,263	5,065	5,248	802	183
Auto Services, Except Repair	4,090	3,994	4,440	-96	446
Other Repair Services	4,036	4,610	5,303	574	693
Electrical Repair Shops	1,481	1,617	1,866	136	249
Other Repair Services	2,555	2,993	3,437	438	444

TABLE 10 (Continued)

BOSTON, 1984

INDUSTRY TITLE	EMPLOYMENT			NET CHANGE	
	1970	1974	1985	1970-1974	1974-1985
Motion Pictures, Theatres	3,957	3,940	4,561	-17	621
Miscellaneous Entertainment	5,866	6,794	7,948	928	1,154
Bowling Alleys, Billiards	767	777	747	10	-30
Miscellaneous Entertainment	5,099	6,017	7,201	918	1,184
Medical, Other Health	107,057	122,146	150,087	15,089	27,941
Offices of Physicians	8,102	9,657	12,171	1,555	2,514
Offices of Dentists	5,405	6,331	8,867	926	2,536
Offices of Chiropractors	36	71	96	35	25
Hospitals	71,023	75,962	84,924	4,939	8,962
Convalescent Institutions	13,334	19,153	28,996	5,819	9,843
Health Practitioners, N.E.C.	1,808	2,327	3,255	519	928
Health Services, N.E.C.	7,349	8,645	11,778	1,296	3,133
Legal Services	9,646	10,805	11,546	1,159	741
Educational Services	100,306	106,429	128,938	6,123	22,509
Elementary, Secondary	49,403	56,134	66,833	6,731	10,699
College & Universities	43,263	42,316	53,474	-947	11,158
Libraries	2,367	2,720	3,190	353	470
Educational Services, N.E.C.	5,273	5,259	5,441	-14	182
Museums, Art Galleries, Zoos	979	1,209	1,345	230	136
Nonprofit Organizations	24,213	24,624	26,801	471	2,177
Religious Organizations	8,363	8,633	9,361	272	728
Welfare Services	8,853	8,796	9,559	-57	763
Residential Welfare	508	535	561	27	46
Nonprofit Membership	6,489	6,718	7,300	229	582
Private Households	14,446	11,583	9,066	-2,863	2,517
Other Professional Related Services	24,049	27,029	29,336	2,980	2,307
Engineering & Architectural Services	12,892	13,681	14,223	789	542
Accounting, Auditing	6,692	7,152	8,476	460	1,324
Misc. Professional Services	4,465	6,196	6,637	1,731	441
GOVERNMENT TOTAL 1/	72,931	65,076	67,240	-7,855	2,164
Federal Public Admin.	31,458	25,450	25,280	-6,008	-170
Postal Service	17,658	13,740	12,742	-3,918	-998
Federal Public Admin.	13,800	11,710	12,538	-2,090	828
State Public Admin.	12,439	11,857	12,839	-582	982
Local Public Admin.	29,034	27,729	29,121	-1,305	1,392

Government workers involved in activities unique to government are classified in the public administrative industry. Government workers in agencies engaged in activities also carried on by private industry such as shipbuilding, education, and medical services, are classified in the appropriate industry category.

Table 11  
Job Openings By Industry  
Boston-Metro Job Bank  
March 1979  
(By 2-Digit SIC\* Code)

	Job Openings
TOTAL ALL INDUSTRIES	5,602
Agriculture, Forestry and Fishing (01-09)	53
Agriculture Production Corps (01)	3
Agriculture Production Livestock (02)	6
Agriculture Services (07)	41
Forestry (08)	2
Fishing, Hunting, Trapping (09)	1
Construction (15-17)	143
Building Construction (15)	29
Construction Other Than Building (16)	17
Construction Special Trades (17)	97
Manufacturing (20-39)	1,306
Durable Goods (24, 25, 32-39)	946
Lumber and Wood Products (24)	44
Furniture and Fixtures (25)	13
Stone, Clay, Glass Concrete Products (32)	23
Primary Metal Industries (33)	24
Fabricated Metal Products (34)	102
Machinery except Electrical (35)	213
Electrical and Electronic Machinery (36)	318
Transportation Equipment (37)	54
Instruments (38)	108
Miscellaneous Manufacturing (39)	47
Nondurable Goods (20-23, 26-31)	360
Food and Kindred Products (20)	40
Tobacco Manufacturers (21)	5
Textile Mill Products (22)	20
Apparel (23)	147
Paper and Allied Products (26)	30
Printing and Publishing (27)	54
Chemicals (28)	16
Petroleum Refining (29)	4
Rubber and Plastic Products (30)	31
Leather and Leather Products (31)	13

Table 11  
Job Openings By Industry  
Boston-Metro Job Bank  
March 1979  
(By 2-Digit SIC\* Code)  
(continued)

	Job Openings
Transportation, Communication, Utilities (40-49)	89
Railroad Transportation (40)	1
Local, Suburban Urban Passenger (41)	10
Motor Freight Transportation (42)	48
Water Transportation (44)	1
Pipe Lines except Natural Gas (46)	0
Transportation Services (47)	6
Communication (48)	16
Electric Gas and Sanitary Service (49)	7
Wholesale Trade (50-51)	289
Wholesale Trade Durable Goods (50)	189
Wholesale Trade Nondurable Goods (51)	101
Retail Trade (52-59)	597
Building Materials Hardware (52)	42
General Merchandise Stores (53)	134
Food Stores (54)	28
Automotive and Gasoline Service (55)	80
Apparel and Accessories (56)	36
Furniture and Home Furnishings (57)	26
Eating and Drinking Places (58)	202
Miscellaneous Retail (59)	49
Finance, Insurance, Real Estate (60-67)	226
Banking (60)	59
Credit Agencies (61)	20
Securities and Commodity Brokers (62)	4
Insurance (63)	76
Insurance Agents, Brokers (64)	27
Real Estate (65)	37
Holding and Other Investment Offices (67)	2

Table 11  
 Job Openings By Industry  
 Boston-Metro Job Bank  
 March 1979  
 (By 2-Digit SIC\* Code)  
 (continued)

	Job Openings
Services (70-89)	1,180
Hotel, Rooming Houses (70)	61
Personal Services (72)	60
Business Services (73)	322
Automotive Repair Services (75)	56
Miscellaneous Repair Services (76)	28
Motion Pictures (78)	2
Amusement and Recreation Services (79)	27
Health Service (80)	221
Legal Service (81)	15
Educational Services (82)	158
Social Services (83)	60
Museums Galleries, Zoos (84)	2
Membership Organizations (86)	61
Private Households (88)	34
Miscellaneous Services (89)	73
Public Administration (91-97)	1,719
Executive Legislative General Government (91)	1,479
Justice Public Order and Safety (92)	32
Public Finance Taxes, Monetary Policy (93)	14
Administration Human Resource Programs (94)	145
Admin. of Enviromental and Housing (95)	23
Admin. of Economic Programs (96)	24
National Security and International (97)	2

\* SIC - Standard Industrial Classification

Source: Labor Market Information Analytical Table Series  
 U. S. Department of Labor

#### IV. Employment Developments and Outlook By Occupation

##### A. Employment Projections By Occupation

Long range trends for the Boston SMSA appear in table 12, which contains both 1974 employment levels and 1985 projected levels with annual average demand through the eleven year period. Updated national occupational change factors for 1970-1974 and 1974-1985 were utilized in updating the local matrix. These figures however, are not comparable with total employment since they are not adjusted for place of residence nor are they comparable with nonagricultural employment totals as they are adjusted for dual job holders, unpaid absences, all other nonagricultural employment and agricultural employment.

The total projected occupational demand requirements during 1974-1985 span of years is based on both the demand arising from industry growth and replacement needs expected as a result of death, retirement or other separations from the labor force. Over the eleven year period, clerical workers are expected to be the fastest growing occupational category with a projected annual growth rate of 7.6 percent. Especially significant within the category is the expected increase in stenographers, typists and secretaries, an anticipated increase of almost 19,000 over the period. Miscellaneous clerical occupations are also forecast to have high annual demand (3,121) over the period. Teachers show very little gain due to growth, with most of the demand over the period due to separations.

By 1985 health service workers will increase by 10,588 to comprise over 20 percent of all service workers. Growth will be especially strong among nursing aides, orderlies, attendants and practical nurses, with annual demand of 1,494 and 1,226 respectively. Declining occupations include farmers, farm workers, barbers, guards, sewers, stitchers, miscellaneous machine operatives, bookkeepers, file clerks, postal clerks, and telephone operators.

Total employment in the SMSA is projected to increase by 111,079 between 1974 and 1985 if economic trends continue. Nationwide projections reveal a similar trend although growth rates are larger than those locally.

TABLE 12

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION  
DURING 1974 - 1985 PERIOD  
BOSTON, SMSA

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Annual Labor Demand 1974 - 1985		
			Total Demand	Due to Growth	Due Separat
TOTAL, ALL OCCUPATIONS . . . . .	1,320,830	1,431,909	66,793	10,103	56,690
Professional, Technical, Kindred . . . . .	247,424	275,743	11,898	2,574	9,324
Engineers, Technical . . . . .	29,976	31,863	647	170	477
Engineers, Aero-Astronautical . . . . .	714	641	0	-7	714
Engineers, Chemical . . . . .	714	720	9	0	714
Engineers, Civil . . . . .	3,987	3,999	95	1	3,986
Engineers, Electrical . . . . .	9,833	11,109	231	116	1,117
Engineers, Industrial . . . . .	4,927	5,041	92	10	4,917
Engineers, Mechanical . . . . .	4,517	5,024	125	46	4,471
Engineers, Metallurgical . . . . .	267	298	8	3	264
Engineers, Mining . . . . .	16	27	3	1	15
Engineers, Petroleum . . . . .	0	0	0	0	0
Engineers, Sales . . . . .	1,086	1,174	26	4	1,082
Engineers, Other . . . . .	3,915	3,870	58	4	3,911
Life & Physical Scientists . . . . .	4,595	4,813	128	20	1,018
Agricultural Scientists . . . . .	88	98	5	1	87
Atmospheric, Space Scientists . . . . .	91	102	2	1	90
Biological Scientists . . . . .	779	747	23	-3	782
Chemists . . . . .	2,428	2,572	74	13	2,415
Geologists . . . . .	69	86	3	2	67
Marine Scientists . . . . .	6	9	0	0	6
Physicists & Astronomers . . . . .	1,101	1,154	20	5	1,096
Life, Physical Scientists, N.E.C. . . . .	33	45	1	1	32
Mathematical Specialists . . . . .	1,338	1,584	73	23	1,315
Actuaries . . . . .	523	640	25	11	512
Mathematicians . . . . .	329	394	18	6	323
Statisticians . . . . .	486	550	30	6	480
Engineers, Science Technicians . . . . .	20,031	23,309	671	299	3,732
Agricultural & Biological Technicians, Except Health . . . . .	297	319	14	2	295
Chemical Technicians . . . . .	1,389	1,606	49	20	1,369
Drafters . . . . .	7,148	8,100	201	87	7,061
Electrical & Electronic Technicians . . . . .	5,019	6,106	168	99	4,920
Industrial Engineering Technicians . . . . .	545	599	14	5	540
Mathematical Technicians . . . . .	0	0	0	0	0
Mechanical Engineering Technicians . . . . .	389	470	13	7	382
Surveyors . . . . .	803	909	24	10	793
Engineering, Science Technicians, N.E.C. . . . .	4,441	5,200	188	69	4,372
Medical Workers, Except Technicians . . . . .	36,194	40,939	2,493	431	2,062
Chiropractors . . . . .	49	64	3	1	48
Dentists . . . . .	2,155	2,988	175	76	1,079
Dietitians . . . . .	811	807	55	0	811
Optometrists . . . . .	455	607	30	14	441
Pharmacists . . . . .	2,735	2,740	105	0	2,630
Physicians, M. D. Osteopaths . . . . .	8,185	9,300	451	101	8,084
Podiatrists . . . . .	253	296	18	4	249
Registered Nurses . . . . .	18,769	19,917	1,352	105	1,247
Therapists . . . . .	2,467	3,725	279	113	1,334
Veterinarians . . . . .	257	377	16	11	246
Other Medical & Health Workers . . . . .	58	128	8	6	52



TABLE 12 (Continued)  
BOSTON, SMSA

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Annual Labor Demand 1974 - 1985		
			Total Demand	Due to Growth	Due to Separations
h Technologists & Technicians . . . . .	8,849	10,882	799	216	583
nical Lab. Technologists & Technicians . . . . .	3,530	3,716	240	17	223
ital Hygienists . . . . .	871	1,590	151	74	77
ith Record Technologists & Technicians . . . . .	416	640	61	20	41
biological Technologists & Technicians . . . . .	1,521	1,587	115	6	109
rapy Assistants . . . . .	71	108	8	3	5
er Health Technologists & Technicians . . . . .	2,080	3,141	224	96	128
icians, Except Health . . . . .	2,260	2,994	120	67	53
plane Pilots . . . . .	561	591	8	3	5
Traffic Controllers . . . . .	188	211	6	2	4
almers . . . . .	165	146	2	-2	4
ight Engineers . . . . .	70	72	0	0	0
io Operators . . . . .	316	349	12	3	9
l. Programmers, Numerical . . . . .	59	54	1	-0	1
er Technicians, Except Health . . . . .	901	1,571	91	61	30
ter Specialists . . . . .	8,998	10,953	384	178	206
puter Programmers . . . . .	5,821	6,857	251	94	157
puter Systems Analysts . . . . .	2,715	3,216	116	73	43
er Computer Specialists . . . . .	462	580	17	11	6
l Scientists . . . . .	4,610	5,223	165	56	109
nomists . . . . .	2,652	3,123	99	43	56
itical Scientists . . . . .	127	90	0	-3	3
chologists . . . . .	1,449	1,526	49	7	42
biologists . . . . .	39	51	2	1	1
an & Regional Planners . . . . .	266	304	6	3	3
er Social Scientists . . . . .	77	129	9	5	4
ers . . . . .	51,328	52,979	2,561	150	2,411
It Education Teachers . . . . .	1,259	1,518	74	24	50
lege & University Teachers . . . . .	10,589	10,500	257	-8	265
mentary School Teachers . . . . .	15,968	16,857	1,112	81	1,031
chool & Kindergarten Teachers . . . . .	3,302	3,524	216	20	196
ndary School Teachers . . . . .	14,752	14,900	568	13	555
chers, N.E.C., Except Colleges & Universities . . . . .	5,458	5,680	334	20	314
rs, Artists, & Entertainers . . . . .	20,966	22,994	804	185	619
ors . . . . .	190	312	24	11	13
letes & Kindred Workers . . . . .	1,326	1,475	40	14	26
hors . . . . .	976	713	-5	-24	19
cers . . . . .	117	157	11	4	7
igners . . . . .	3,030	3,169	96	13	83
tors & Reporters . . . . .	4,090	4,420	78	30	48
icians & Composers . . . . .	2,250	2,702	141	40	101
nters & Sculptors . . . . .	3,559	3,804	164	22	142
otographers . . . . .	1,302	1,363	40	6	34
lic Relations Specialist . . . . .	2,005	2,151	86	13	73
io & TV Announcers . . . . .	252	292	7	3	4
ters, Artists, & Entertainers, N.E.C. . . . .	1,849	2,436	122	53	69
Professional & Technical . . . . .	58,639	67,210	3,053	779	2,274
ountants . . . . .	17,748	19,567	761	165	596
hitects . . . . .	2,378	2,459	69	11	58
hivists & Curators . . . . .	296	378	22	7	15
ry . . . . .	2,511	2,778	81	24	57
igious, Except Clergy . . . . .	1,119	1,326	51	19	32
m Management Advisors . . . . .	22	14	0	-1	1

TABLE 12 (Continued)  
BOSTON, SMSA

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Annual Labor Demand 1974 - 1985		
			Total Demand	Due to Growth	Due to Separation
Foresters & Conservationists	73	83	3	1	2
Home Management Advisors	64	54	3	-1	4
Judges	142	151	13	1	12
Lawyers	8,378	9,377	476	93	383
Librarians	2,586	3,116	197	12	185
Operations, Systems Research	2,126	3,204	135	98	37
Personnel Labor Relations	5,267	5,617	206	32	174
Research Workers, N.E.C.	5,961	8,036	433	189	244
Recreation Workers	1,931	2,351	137	38	99
Social Workers	5,620	5,979	354	33	321
Vocational, Education Counselors	2,057	2,700	112	58	54
Managers, Officials, & Proprietors	152,165	161,704	5,708	868	4,840
Buyers, Sales, & Loan Managers	29,990	36,605	1,567	601	966
Bank, Financial Managers	8,824	10,461	438	149	289
Credit Managers	1,554	1,900	103	31	72
Buyers, Shippers, Farm Products	194	228	9	3	6
Buyers, Wholesale, Retail	3,456	4,654	278	109	169
Purchasing Agents, Buyers, N.E.C.	3,717	4,501	185	71	114
Sales Manager, Retail Trade	5,322	6,637	294	124	170
Sales Manager, Except Retail Trade	6,923	8,174	250	114	146
Administrators, Public Inspectors	12,540	13,773	587	113	474
Assessors, Controllers, Local Public Administration	302	275	21	-2	23
Construction Inspectors, Public Administration	298	305	17	1	16
Health Administrators	3,422	3,981	227	51	176
Inspectors, Except Construction, Public Admin.	1,282	1,450	55	15	40
Officials & Administrators, Public Admin.	3,405	3,333	126	-6	132
Postmasters & Mail Superintendents	204	139	1	-6	7
School Administrators, College	1,049	1,270	35	20	15
School Administrators, Elementary & Secondary	2,578	3,020	165	40	65
Other Managers, Officials, & Proprietors	109,635	111,326	3,554	154	3,400
Funeral Directors	683	654	27	-3	30
Managers, Superintendents, Building	1,722	2,153	140	39	101
Office Managers, N.E.C.	5,772	6,806	331	94	237
Officers, Pilots, Purser, Ship	273	285	11	1	10
Officials of Lodges, Unions	1,113	1,043	38	-6	44
Railroad Conductors	209	253	10	4	6
Restaurant, Cafe & Bar Managers	7,348	8,100	134	23	111
Other Managers & Administrators, N.E.C.	92,015	92,032	2,863	2	2,861
Sales Workers	92,686	101,223	4,779	777	4,002
Advertising Agents, Sales Workers	1,115	1,308	63	18	45
Auctioneers	18	13	0	-0	0
Demonstrators	400	616	47	20	27
Rucksters & Peddlers	1,181	1,535	94	32	62
Insurance Agents, Brokers, etc.	8,818	9,170	319	32	287
Newspaper Carriers & Vendors	682	539	-1	-13	12
Real Estate Agents, Brokers	6,606	6,835	339	21	318
Stock & Bond Sales Agents	2,572	2,527	87	-4	91
Sales & Sales Workers, N.E.C.	71,294	78,680	3,831	671	3,160

TABLE 12 (Continued)  
BOSTON, SMSA

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Annual Labor Demand 1974 - 1985		
			Total Demand	Due to Growth	Due to Separations
l. Workers . . . . .	294,203	334,521	22,433	3,665	18,768
ographers, Typists & Secretaries . . . . .	92,090	110,919	9,337	1,713	7,624
retaries, Legal . . . . .	2,762	3,560	332	73	259
retaries, Medical . . . . .	3,597	4,585	410	90	320
retaries, Other . . . . .	60,710	76,227	6,569	1,411	5,158
ographers . . . . .	1,232	732	28	-45	73
ists . . . . .	23,789	25,815	1,998	184	1,814
Machine Operators . . . . .	15,310	14,597	602	-65	667
okeeping, Billing Operators . . . . .	1,183	1,054	53	-12	65
culating Machine Operators . . . . .	714	707	45	-1	46
puter, Peripheral Equipment Operators . . . . .	5,642	6,478	202	76	126
licating Machine Operators . . . . .	452	384	14	-6	20
punch Operators . . . . .	5,839	4,550	217	-117	334
culating Machine Operators . . . . .	44	22	-1	-2	1
er Office Machine Operators . . . . .	1,436	1,402	72	-3	75
: Clerical Workers . . . . .	186,803	209,005	12,494	2,017	10,477
rk Tellers . . . . .	5,547	6,121	410	52	358
ling Clerks . . . . .	2,937	3,852	299	83	216
ckkeepers . . . . .	29,877	28,734	1,749	-104	1,853
shiers . . . . .	18,717	19,958	1,322	113	1,209
ical Assistants, Social Welfare . . . . .	228	260	19	3	16
ical Supervisors, N.E.C. . . . .	3,704	4,325	221	56	165
lectors, Bill & Account . . . . .	911	921	39	1	38
unter Clerks, Except Food . . . . .	5,520	6,254	411	70	341
atchers, Starters, Vehicle . . . . .	1,558	1,886	84	30	54
erators & Interviewers . . . . .	715	623	28	-8	36
imators, Investigators, N.E.C. . . . .	7,503	8,515	458	92	366
editors, Production Controllers . . . . .	3,952	4,777	201	75	126
la Clerks . . . . .	7,279	6,755	447	-47	494
urance Adjusters & Examiners . . . . .	3,429	3,729	143	27	116
rary Attendants & Assistants . . . . .	3,443	3,899	287	41	246
il Carriers, Post Office . . . . .	4,500	4,070	32	-39	71
il Handlers, Except Post Office . . . . .	4,023	4,512	235	44	191
ssengers & Office Helpers . . . . .	1,771	1,455	62	-29	91
ter Readers, Utilities . . . . .	459	411	2	-4	6
roll, Time Keeping Clerks . . . . .	3,288	3,746	254	42	212
stal Clerks . . . . .	6,323	5,720	109	-55	164
cofreaders . . . . .	705	739	50	3	47
al Estate Appraisers . . . . .	427	460	30	3	27
ceptionist . . . . .	6,591	7,724	657	103	554
ipping, Receiving Clerks . . . . .	10,411	11,350	371	85	286
atistical Clerks . . . . .	6,136	5,664	328	-25	353
ock Clerks, Storekeepers . . . . .	7,496	8,568	354	98	256
achers' Aides, Except Monitors . . . . .	1,943	3,364	234	129	105
tegraph Messengers . . . . .	38	15	-1	-2	1
tegraph Operators . . . . .	199	169	6	-3	9
lephone Operators . . . . .	9,616	7,890	435	-157	592
cket Station & Express Agents . . . . .	2,087	2,141	87	5	82
ighers . . . . .	203	230	10	2	8
scellaneous Clerical Workers, N.E.C. . . . .	25,267	39,928	3,121	1,333	1,788

TABLE 12 (Continued)  
BOSTON, SMSA

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Annual Labor Demand 1974 - 1985		
			Total Demand	Due to Growth	Due to Separation
<b>Craft &amp; Kindred Workers</b> . . . . .	148,501	157,575	4,085	825	3,260
Construction Crafts Workers . . . . .	42,966	47,592	1,280	420	860
Carpenters & Apprentices . . . . .	13,761	14,917	452	105	347
Brick & Stonemasons & Apprentices . . . . .	2,070	2,318	60	23	37
Bulldozer Operators . . . . .	543	703	24	15	9
Cement & Concrete Finishers . . . . .	713	810	16	9	7
Electricians & Apprentices . . . . .	7,112	7,920	157	73	84
Excavating, Grading & Machine Operators . . . . .	1,716	2,141	63	39	24
Floor Layers, Except Tile Setters . . . . .	434	439	8	0	8
Painters & Apprentices . . . . .	6,413	6,456	184	4	180
Paperhangers . . . . .	561	629	29	6	23
Plasterers & Apprentices . . . . .	546	491	7	-5	12
Plumbers, Pipefitters & Apprentices . . . . .	5,798	6,790	164	90	74
Roofers & Slaters . . . . .	1,194	1,567	55	34	21
Structural Metal Craft Workers . . . . .	1,431	1,721	49	25	23
Tilesetters . . . . .	674	690	12	1	11
Blue-Collar Worker Supervisors, N.E.C. . . . .	19,311	20,802	656	136	520
<b>Metalworking Craft Workers, Except Mechanics</b> . . . . .	15,201	15,510	330	29	301
Blacksmiths . . . . .	36	32	1	-6	1
Boilermakers . . . . .	269	300	4	3	1
Heat Treaters, Annealers, & Temperers . . . . .	225	178	2	-1	6
Forge & Hammer Operators . . . . .	82	88	1	0	1
Job & Die Setters, Metal . . . . .	705	811	28	10	18
Machinists & Apprentices . . . . .	7,604	7,700	158	9	149
Millwrights . . . . .	607	657	20	5	15
Molders & Apprentices, Metal . . . . .	360	317	2	-4	6
Pattern & Mould Makers . . . . .	566	446	6	-11	17
Rollers & Finishers, Metal . . . . .	76	76	2	0	2
Sheetmetal Workers & Apprentices . . . . .	2,938	3,047	59	10	49
Tool & Die Makers & Apprentices . . . . .	1,733	1,858	47	11	36
<b>Mechanics, Repairers, &amp; Installers</b> . . . . .	35,457	40,004	1,065	415	650
Air Cond., Heating, & Refrig. Mechanics & Repairers . . . . .	3,602	4,488	144	81	63
Aircraft Mechanics . . . . .	925	989	15	6	9
Auto Accessories Installers . . . . .	94	97	1	0	1
Auto Body Repairers . . . . .	2,458	2,500	31	4	27
Auto Mechanics & Apprentices . . . . .	10,962	12,013	284	96	188
Data Processing Machine Repairers . . . . .	837	1,185	40	32	8
Farm Implement Mechanics . . . . .	458	609	27	14	13
Heavy Equipment Mechanics Including Diesel . . . . .	8,030	8,510	219	44	175
Household Appliance Mechanics . . . . .	1,681	1,898	53	20	33
Loom Fixers . . . . .	4	5	0	0	0
Office Machine Repairers . . . . .	1,118	1,530	52	37	15
Radio & Television Repairers . . . . .	1,872	2,599	169	66	43
Railroad & Car Shop Repairers . . . . .	271	259	6	-1	7
Other Mechanics & Apprentices . . . . .	3,145	3,322	84	16	68
<b>Printing Trade Craft Workers</b> . . . . .	7,502	6,943	140	-51	191
Bookbinders . . . . .	693	670	30	-2	32
Composition & Typesetters . . . . .	2,879	2,266	23	-56	79
Electrotypers & Stereotypers . . . . .	53	32	-1	-2	1
Engravers, Except Photoengravers . . . . .	202	154	2	-4	6
Photoengravers & Lithographers . . . . .	749	817	25	6	19
Pressmen, Plate Printers & Apprentices . . . . .	2,925	3,004	61	7	54

TABLE 12(Continued)  
BOSTON, SNEA

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Annual Labor Demand 1974 - 1985		
			Total Demand	Due to Growth	Due to Separations
ortation, Public Utility Crafts . . . . .	9,760	9,699	83	-6	89
Electric Power Line Installers & Repairers . . . . .	1,070	1,170	22	8	14
Automotive Engineers . . . . .	258	305	10	4	6
Automotive Engineers Helpers . . . . .	29	14	-1	-1	0
Radio Station Operators . . . . .	200	161	1	-4	5
Telephone Installers & Repairers . . . . .	7,359	7,391	63	3	60
Telephone Line Installers & Splicers . . . . .	836	698	-12	-16	4
Crafts, Kindred Workers . . . . .	18,304	17,025	531	-118	649
Netmakers . . . . .	2,106	1,719	30	-35	65
Net Installers . . . . .	780	650	10	-12	22
Boat Builders, Derrick, & Hoist Operators . . . . .	607	693	13	8	5
Boat Builders, Window Dressers . . . . .	1,743	1,688	32	-5	37
Boat Builders, Window Dressers . . . . .	1,065	1,105	54	4	50
Chemical Laboratory Technicians . . . . .	578	520	17	-5	22
Furniture & Wood Finishers . . . . .	417	380	11	-4	15
Electricians . . . . .	63	58	3	-5	3
Electricians . . . . .	442	544	18	9	9
Electricians, Log & Lumber . . . . .	25	7	-1	-2	1
Electricians, Other . . . . .	1,797	1,686	46	-10	56
Electricians & Watchmakers . . . . .	584	538	26	-4	30
Electricians, Grain, Flour, Feed . . . . .	15	20	0	0	0
Electricians, Picture Projectionists . . . . .	194	209	19	1	18
Electricians, Lens Grinders & Polishers . . . . .	828	1,360	83	48	35
Electricians & Organ Tuners & Repairers . . . . .	179	200	14	2	12
Electricians . . . . .	177	190	5	1	4
Electricians & Repairers . . . . .	502	253	3	-23	26
Electricians, Painters & Letterers . . . . .	519	458	17	-6	23
Electricians, Machinery Engineers . . . . .	1,922	1,425	12	-5	57
Electricians, Stone Cutters & Stone Carvers . . . . .	156	159	7	0	7
Electricians . . . . .	1,273	1,042	45	-21	66
Electricians . . . . .	676	683	30	1	29
Electricians & Kindred Workers, N.E.C. . . . .	1,656	1,438	37	-20	57
Electricians . . . . .	159,282	155,749	5,184	-318	5,502
Electricians, Except Transportation . . . . .	119,378	115,333	4,304	-365	4,669
Electricians, Skilled Metal Working . . . . .	12,385	12,888	339	0	339
Electricians, Press Operators . . . . .	888	784	18	-9	27
Electricians, Race Tenders, Smelters, & Pourers, Metal . . . . .	264	269	9	0	9
Electricians, Rolling Machine Operatives . . . . .	1,067	1,038	25	-3	28
Electricians, Metal . . . . .	18	7	-1	-1	0
Electricians, Rolling Machine Operatives . . . . .	1,871	1,715	29	-14	43
Electricians, Metal Platers . . . . .	624	711	25	8	17
Electricians, Precision Machine Operatives . . . . .	1,091	1,058	24	-3	27
Electricians, Stamping Press Operatives . . . . .	1,042	975	30	-6	36
Electricians . . . . .	1,179	793	16	-35	51
Electricians & Flame Cutters . . . . .	4,841	5,538	164	63	101
Electricians, Textile . . . . .	1,204	782	5	-38	43
Electricians, Lapping, & Combing Operatives . . . . .	49	17	-1	-3	2
Electricians, Loopers, & Toppers . . . . .	105	34	-3	-6	3
Electricians, Spinners, Twisters, & Winders . . . . .	112	68	1	-4	5
Electricians . . . . .	62	46	2	-1	3
Electricians, Textile Operatives . . . . .	876	617	6	-24	30

TABLE 12 (Continued)  
BOSTON, SMSA

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Annual Labor Demand 1974 - 1985		
			Total Demand	Due to Growth	Due to Separation
Semiskilled Packing, Inspecting . . . . .	23,027	22,612	1,028	-38	1,066
Checkers, Examiners, & Inspectors, Mfg. . . . .	9,546	10,311	494	70	424
Graders & Sorters, Manufacturing . . . . .	280	207	7	-7	14
Meat Wrappers, Retail Trade . . . . .	1,437	1,603	102	15	87
Packers & Wrappers, Except Meat & Produce . . . . .	11,603	10,321	416	-117	533
Produce Graders & Packers, Except Factory & Farm . . . . .	161	170	9	1	8
Other Operatives, Except Transportation . . . . .	82,262	79,051	2,932	-289	3,221
Asbestos & Insulation Workers . . . . .	438	676	31	22	9
Assemblers . . . . .	16,252	17,516	861	115	746
Blasters . . . . .	43	34	0	-1	1
Bottling & Canning Operatives . . . . .	487	442	15	-4	19
Surveyor Helpers . . . . .	69	65	0	-4	0
Clothing Ironers & Pressers . . . . .	1,877	1,187	11	-63	74
Cutting Operatives, N.E.C. . . . .	3,018	2,917	108	-9	117
Dressmakers, Except Factory . . . . .	1,428	1,237	84	-17	101
Drillers, Earth . . . . .	195	174	3	-2	5
Dry Wall Installers, & Lathers . . . . .	408	428	6	2	4
Dyers . . . . .	101	88	1	-1	2
Fillers, Polishers, Sanders, & Buffers . . . . .	1,014	1,021	33	1	32
Garage Workers & Gas Station Attendants . . . . .	4,264	3,846	7	-47	54
Laundry & Dry Cleaning Operatives, N.E.C. . . . .	2,760	2,491	120	-24	144
Meat Cutters & Butchers, Except Mfg. . . . .	3,498	3,200	75	-27	102
Meat Cutters, Butchers . . . . .	540	499	11	-4	15
Milliners . . . . .	39	26	2	-1	3
Mine Operatives, N.E.C. . . . .	34	19	0	-1	1
Mixing Operatives . . . . .	875	782	11	-8	19
Oilers & Greasers, Except Auto . . . . .	315	240	0	-7	7
Painters, Manufactured Articles . . . . .	1,433	1,215	33	-2	35
Photographic Process Workers . . . . .	2,619	2,546	132	21	111
Riveters & Fasteners . . . . .	357	370	18	1	17
Sailors & Deckhands . . . . .	195	201	4	1	3
Sawyers . . . . .	248	212	7	-3	10
Sewers & Stitchers . . . . .	9,195	7,354	344	-167	511
Shoemaking Machine Operatives . . . . .	1,493	1,042	24	-41	65
Furnace Tenders & Stokers, Except Metal . . . . .	1,151	984	29	-15	44
Winding Operatives, N.E.C. . . . .	878	1,078	57	18	39
Miscellaneous Machine Operatives . . . . .	15,115	14,284	425	-76	501
Operatives, N.E.C. . . . .	12,023	12,577	480	50	430
Transportation Equipment Operatives . . . . .	39,904	40,416	880	47	833
Boat Operators . . . . .	59	57	1	-2	1
Bus Drivers . . . . .	3,791	3,891	134	9	125
Conductors & Operators, Urban Rail Transit . . . . .	626	645	14	2	12
Delivery & Route Workers . . . . .	10,236	10,329	186	8	178
Fork Lift & Tow Motor Operators . . . . .	2,215	2,472	58	24	34
Rail Vehicle Operators, N.E.C. . . . .	4	4	0	0	0
Parking Attendants . . . . .	891	796	31	-9	40
Railroad Brake Operators . . . . .	309	335	8	2	6
Railroad Switch Operators . . . . .	169	243	14	7	7
Taxicab Drivers & Chauffeurs . . . . .	5,227	5,225	168	-2	168
Truck Drivers . . . . .	16,377	16,419	266	4	262
Service Workers . . . . .	173,185	192,286	11,528	1,738	9,790
Cleaning Service Workers . . . . .	31,854	36,749	2,265	444	1,821
Lodging Quarters Cleaners, Except Private Household . . . . .	2,301	2,745	225	40	185
Building Interior Cleaners, N.E.C. . . . .	11,928	14,957	1,062	275	787
Janitors & Sextons . . . . .	17,625	19,047	978	129	849

TABLE 12(Continued)  
BOSTON, 1943

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Annual Labor Demand 1974 - 1985		
			Total Demand	Due to Growth	Due to Separations
d Service Workers . . . . .	60,261	66,702	3,642	586	3,056
artenders . . . . .	3,650	4,152	129	46	83
aiter's Assistants . . . . .	2,459	2,620	51	15	36
ooks, Except Private . . . . .	10,993	13,216	681	202	479
ishwashers . . . . .	3,661	4,059	170	36	134
ood Counter & Fountain Workers . . . . .	11,329	11,702	647	34	613
aiters . . . . .	20,123	22,520	1,484	218	1,266
ood Workers, N.E.C., Except Private . . . . .	8,046	8,433	480	35	445
h Service Workers . . . . .	29,648	40,236	3,338	963	2,375
ental Assistants . . . . .	2,119	2,844	277	66	211
health Aides, Except Nursing . . . . .	3,397	4,246	345	77	268
health Trainees . . . . .	587	122	-4	-42	38
ay Midwives . . . . .	0	0	0	0	0
nursing Aides, Orderlies, & Attendants . . . . .	14,656	19,398	1,494	431	1,063
ractical Nurses . . . . .	8,889	13,626	1,226	431	795
nal Service Workers . . . . .	19,641	21,348	1,456	157	1,339
light Attendants . . . . .	1,279	1,461	165	17	148
ttendants, Recreation & Amusement . . . . .	743	817	46	7	39
ttendants, Personal Service, N.E.C. . . . .	1,277	1,270	98	-1	99
uggage Porters & Bellhops . . . . .	320	262	0	-5	5
barbers . . . . .	1,803	1,185	7	-56	63
boarding & Lodging Housekeepers . . . . .	523	603	58	7	51
oothblacks . . . . .	5	1	0	-4	0
child Care Workers, Except Private . . . . .	2,794	4,329	397	140	257
levator Operators . . . . .	735	439	17	-27	44
hairdressers, Cosmetologists . . . . .	6,348	6,633	457	28	429
ousekeepers, Except Private . . . . .	1,839	1,843	109	0	109
chool Monitors . . . . .	641	943	56	27	29
ishers, Recreation & Amusement . . . . .	390	371	9	-2	11
welfare Service Aides . . . . .	944	1,191	77	22	55
ective & Service Workers . . . . .	24,023	23,060	581	-88	669
Crossing Guards & Bridgetenders . . . . .	910	776	47	-12	59
Fire Fighters . . . . .	6,858	7,050	113	17	96
Guards . . . . .	7,230	5,847	262	-126	388
Marshals & Constables . . . . .	59	65	4	1	3
Police & Detectives . . . . .	8,460	8,844	128	35	93
Sheriffs & Bailiffs . . . . .	506	478	27	-3	30
ate Household Workers . . . . .	7,758	4,191	206	-324	530
Child Care Workers . . . . .	3,109	1,558	64	-141	205
Cooks, Private . . . . .	287	161	11	-11	22
Housekeepers, Private . . . . .	954	539	29	-38	67
Launderers, Private Household . . . . .	36	12	1	-2	3
Cleaners & Servants, Private Household . . . . .	3,372	1,921	101	-132	233
rers, Except Farm . . . . .	50,397	51,530	1,224	104	1,120
Animal Caretakers, Except Farm . . . . .	1,358	1,908	112	46	66
Carpenters, Helpers . . . . .	956	1,031	19	7	12
Construction Laborers, Exc..Carpenter's Help.. . . .	9,272	9,127	122	-13	135
Fishers, Hunters, & Trappers . . . . .	316	281	4	-3	7
Freight, Material Handlers . . . . .	8,096	8,180	164	8	156

TABLE 12(Continued)  
BOSTON, SMSA

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Annual Labor Demand 1974 - 1985		
			Total Demand	Due to Growth	Due to Separation
Garbage Collectors . . . . .	813	1,047	38	21	17
Gardeners & Groundskeepers, Except Farm . . . . .	5,503	5,705	228	18	210
Longshore Workers & Stevedores . . . . .	821	887	28	6	22
Timbercutting & Logging Workers . . . . .	76	55	-1	-2	1
Stock Handlers . . . . .	13,614	14,511	330	82	248
Teamsters . . . . .	17	10	0	-1	1
Vehicle Washers & Equipment Cleaners . . . . .	2,564	2,602	64	3	61
Warehouse Laborers, N.E.C. . . . .	2,030	1,721	5	-28	33
Other Laborers . . . . .	4,921	4,485	111	-40	151
Farmers & Farm Workers . . . . .	2,987	1,558	-46	-130	84
Farmers & Farm Managers . . . . .	780	395	-7	-35	28
Farmers (Owners & Tenants) . . . . .	651	274	-10	-34	24
Farm Managers . . . . .	129	121	3	-1	4
Farm Laborers, Farm Supervisors . . . . .	2,207	1,163	-39	-95	56
Farm Labor Supervisors . . . . .	165	129	3	-3	6
Farm Laborers, Wage Workers . . . . .	1,918	918	-47	-91	44
Farm Laborers, Unpaid Family . . . . .	107	160	4	-1	5
Farm Laborers, Self-employed . . . . .	17	16	1	-0	1



### B. Labor Demand - Supply by Occupation

Information regarding labor supply and demand is available through analysis of Job Bank listings and ESARS tables. Job openings that are posted with the Employment Service are processed and distributed through a central computerized system known as Job Bank. From this system we are able to obtain on a monthly basis an occupational breakdown of openings along with some wage data concerning these openings. The Employment Service Automated Reporting System (ESARS) is the computerized information gathering service for applicants or what can be considered the supply side of the occupational job market. Although analysis of this data is useful when studying labor market conditions, certain limitations of the data sources should be noted. Both Job Bank and ESARS give information only on those openings and applicants that come into the Employment Services Offices, thus reflecting only a portion of the market.

Many additional job openings exist for which firms conduct their own recruitment by use of classified ads, private employment agencies or in house job bidding procedures. In addition, for those jobs that are listed with the Job Bank, wage information may not accurately reflect the pay rate of the position as many openings are listed with a minimum pay rate rather than what may actually be paid once the position is filled. Information on applicants that is available through ESARS can sometimes include double counting of individuals, as some applicants register for work in more than one of the local offices. Also when applicants are entered into the ESARS system they are listed under an occupational code, however many times an individual is capable of accepting work in more than one occupation and this multi skill characteristic of applicants is not reflected in ESARS occupational data.

Table 13 gives a detailed breakdown of active applicants and job openings for the Boston area for the month of January 1979. Analysis of the ratio of applicants to openings for particular occupational categories can be useful to manpower planners in determining those occupations in which either a shortage or surplus of workers may exist.

Table 14 lists job openings for the Boston area by occupational group for the fourth quarter 1978. For each of the three months shown clerical and sales occupations accounted for the largest percentage of total job listed. Structural work was second followed closely by professional, technical and related and service occupations. As to be expected for the area, farming, fishing and forestry had the least number of openings.

A comparison of job openings and average pay by occupational category statewide and for the five Job Bank areas in the state for March 1979 appears in Table 15. Overall the Boston-Metro Job Bank area had the largest number of jobs listed and the highest average pay.

Table 13  
 Boston SMSA Active Applicants  
 Boston-Metro Job Bank Openings  
 By Selected Occupational Categories  
 January 1979

	Active* Applicants Available	Job** Openings	Ratio Applicants To Openings
TOTAL	49,204	5,296	9-1
0,1 <u>Professional, Technical, . Related</u>	6,316	957	14-1
00,01, Architecture Engineering	451	203	2-1
003 Electrical Electronic Engineering	97	53	2-1
007 Mechanical Engineering	89	33	3-1
012 Industrial Engineering	77	28	3-1
017 Drafting and Related	30	6	5-1
02, <u>Mathematics and Physical Sciences</u>	154	65	2-1
020 Mathematics	78	38	2-1
022 Chemistry	28	9	3-1
023 Physics	11	5	2-1
04 <u>Life Sciences</u>	376	51	7-1
041 Biological Sciences	52	6	7-1
045 Psychology	314	43	7-1
07 <u>Medicine and Health</u>	698	120	6-1
070 Physicians and Surgeons	2	4	1-2
075 Registered Nurses	231	55	4-1
076 Therapists	30	8	4-1
078 Medical and Dental Technology	108	22	5-1
09 <u>Education</u>	770	65	12-1
090 College and University Education	119	10	12-1
091 Secondary School Education	227	13	17-1
092 Primary School Education	196	10	19-1

Table 13  
 Boston SMCA Active Applicants  
 Boston-Metro Job Bank Openings  
 By Selected Occupational Categories  
 January 1979  
 (continued)

		Active* Applicants Available	Job** Openings	Ratio Applicants To Openings
16	<u>Administrative Specialization</u>	1,351	163	8-1
160	Accountants & Auditors	198	42	5-1
161	Budget & Management Analysis	20	8	2-1
162	Purchasing Management	117	6	19-1
165	Public Relations Management	78	8	10-1
166	Personnel & Training Administration	134	30	4-1
18	<u>Managers and Officials</u>	1,284	107	12-1
183	Manufacturing Industry Management	78	6	13-1
185	Wholesale Retail Trade Management	327	16	20-1
186	Finance, Insurance, Real Estate Management	123	11	11-1
187	Service Industry Mgmt.	347	29	12-1
19	<u>Miscellaneous Professional Technical Managerial</u>	509	165	3-1
195	Social & Welfare Work	381	121	3-1
2	<u>Clerical and Sales</u>	10,790	1,789	6-1
20	<u>Stenography Typing Filing &amp; Related</u>	4,264	1,070	4-1
201	Secretaries	854	221	7-1
203	Typists	1,187	352	3-1
206	File Clerks	944	20	47-1
21	<u>Computing and Account Recording</u>	2,808	261	11-1
210	Bookkeepers & Bookkeeping Machine Operators	443	55	8-1
211	Cashiers and Tellers	948	44	21-1
216	Accounting & Statistical Clks	289	70	4-1

Table 13  
 Boston SMEA Active Applicants  
 Boston-Metro Job Bank Openings  
 By Selected Occupational Categories  
 January 1979  
 (continued)

	Active* Applicants Available	Job** Openings	Ratio Applicants To Openings
22 <u>Production and Stock Clerks</u>	885	205	4-1
222 Shipping, Receiving, and Stock Clerks	822	123	7-1
29 <u>Miscellaneous Sales Occupations</u>	453	47	9-1
290 Sales Clerks	217	5	43-1
292 Route Sales & Delivery	56	14	4-1
299 Misc. Sales Occupations Not Elsewhere Classified	137	19	7-1
3. <u>Service</u>	6,662	808	8-1
31 <u>Food and Beverage Preparation &amp; Service</u>	2,632	321	8-1
311 Waiter/Waitress	1,291	82	16-1
313 Chefs & Cooks -Hotels and Restaurants	413	70	6-1
318 Kitchen Workers n.e.c.	411	114	4-1
37 <u>Protective Service Occup.</u>	386	138	3-1
372 Security Guards Correction Officers	267	119	2-1
38 <u>Building &amp; Related Service Occupations</u>	737	139	5-1
381 Porters and Cleaners	462	81	6-1
382 Janitors	238	53	4-1

Table 13  
 Boston SMSA Active Applicants  
 Boston-Metro Job Bank Openings  
 By Selected Occupational Categories  
 January 1979  
 (continued)

	Active* Applicants Available	Job** Openings	Ratio Applicants To Openings
4 <u>Farming Fishery Forestry and Related</u>	511	14	36-1
40 <u>Plant Farming Occupation</u>	423	13	32-1
406 Gardening and Grounds- keeping Occupations	108	3	36-1
408 Plant Life and Related Services	265	8	33-1
5 <u>Processing</u>	486	55	9-1
52 <u>Processing Food, Tobacco and Related Products</u>	204	13	15-1
520 Mixing, Blending, Shaping and Related	12	3	4-1
526 Cooking and Baking Occup.	64	8	8-1
55 <u>Chemicals,Plastics, Synthetics Rubber Paint</u>	80	11	7-1
556 Casting & Molding Occupations	14	2	7-1
559 Processing of Chemicals and Related Products n.e.c.	27	8	3-1
58 <u>Processing Leather Textiles and Related Products</u>	79	2	39-1
580 Shaping Blocking Stretching	2	1	2-1
589 Leather, Textiles and Related Products	38	1	38-1
6 <u>Machine Trades</u>	1,669	374	4-1
60 <u>Metal Machining</u>	332	120	3-1
600 Machinists & Related	113	53	2-1
601 Toolmaking & Related	16	12	1-1
604 Turning	27	11	2-1
609 Metal Machining Occup. n.e.c.	121	22	5-1
62 <u>Mechanics and Machinery Repair</u>	504	78	6-1
620 Motor Vehicle & Engineering Equip. Repair	412	65	6-1
626 Metalworking Machinery Mechanics	2	1	2-1

Table 13  
 Boston SMSA Active Applicants  
 Boston-Metro Job Bank Openings  
 By Selected Occupational Categories  
 January 1979

(continued)

	Active* Applicants Available	Job** Openings	Ratio Applicants To Openings
7. <u>Bench Work</u>	1,789	407	4-1
70 <u>Metal Products Fabrication</u> <u>Assembly and Repair</u>	246	88	3-1
701 <u>Fab., Assembly, Repair of</u> <u>Tool and Related</u>	6	2	3-1
706 <u>Metal Unit Assembly and</u> <u>Adjusting</u>	190	65	3-1
72 <u>Assembly and Repair of</u> <u>Electrical Equipment</u>	634	189	3-1
723 <u>Occupations in Electrical</u> <u>Appliance &amp; Fixtures</u> <u>Assembly &amp; Repair</u>	48	35	1-1
726 <u>Assembly &amp; Repair of</u> <u>Electronic Components and</u> <u>Accessories</u>	402	106	4-1
729 <u>Assembly and Repair of</u> <u>Electrical Equipment n.e.c.</u>	103	29	3-1
78 <u>Fabrication &amp; Repair of Textile</u> <u>Leather and Related</u>	544	65	8-1
780 <u>Upholstering, Fabrication</u> <u>Repair of Mattress-Beds</u>	50	17	3-1
785 <u>Tailoring, Dressmaking</u>	39	5	8-1
787 <u>Machine Sewing Operators</u> <u>Nongarment</u>	126	29	4-1
8 <u>Structural</u>	3,316	408	8-1
80 <u>Occupations in Metal</u> <u>Fabrications</u>	288	71	4-1
804 <u>Tinsmiths, Copper Smiths,</u> <u>Sheet Metal Workers</u>	63	26	2-1
807 <u>Body Work Transportation</u> <u>Equipment</u>	113	26	4-1
81 <u>Welders Cutters and</u> <u>Related Occupations</u>	214	18	12-1
810 <u>Arc Welders and Cutters</u>	138	8	17-1
86 <u>Construction Occup. n.e.c.</u>	1,722	181	9-1
860 <u>Carpentry and Related</u>	402	39	10-1
862 <u>Plumbers, Gas Fitting</u> <u>Steam Fitting Occup.</u>	202	20	10-1
869 <u>Misc. Construction Occup.</u>	874	93	9-1

Table 13  
 Boston SMA Active Applicants  
 Boston-Metro Job Bank Openings  
 By Selected Occupational Categories  
 January 1979

(continued)

	Active* Applicants Available	Job** Openings	Ratio Applicants To Openings
9. <u>Miscellaneous</u>	4,958	484	10-1
90 <u>Motor Freight</u>	1,055	131	8-1
904 Trailer Truck Driving	118	7	17-1
905 Heavy Truck Driving	454	33	13-1
906 Light Truck Driving	400	85	4-1
92 <u>Package Material Handling</u>	3,190	233	13-1
920 Packaging Occupations	707	56	12-1
922 Material Moving and Storage Occupations	839	80	10-1
929 Packaging, Material Handling n.e.c.	1,511	87	17-1

\* Source: ESARS Table 96

\*\* Source: Labor Market Information Analytical Table Series  
 U. S. Department of Labor

Table 14  
Job Openings By Occupational Group  
Boston-Metro Job Bank  
4th Quarter 1978

		October	November	December
TOTAL		8,203	9,932	7,534
0,1	Professional, Technical & Related	1,127	1,500	1,379
00,01	Architechure & Engineering	133	189	176
07	Medicine and Health	88	154	142
16	Administrative Specializations	230	293	268
18	Managers & Officials	135	187	144
2	Clerical and Sales	2,648	2,876	1,950
20	Stenography Typing Filing	1,613	1,694	1,122
21	Computing & Account Recording	343	398	337
22	Production & Stock Clerks	175	207	174
29	Miscellaneous Sales Occupations	55	127	54
3	Service	1,165	1,329	1,019
31	Food & Beverage Preparation	534	638	486
35	Personal Service Occupations	105	114	117
38	Building Service Occupations	170	184	144
4	Farming, Fishing, Forestry	66	42	20
5	Processing	126	117	64
6	Machine Trades	544	587	449
60	Metal Machining	204	178	146
62	Mechanics & Repairers	147	143	101
65	Printing Occupations	32	36	36
7	Benchwork	436	434	337
70	Metal Products	69	53	37
72	Electrical Equipment	159	187	133
78	Textiles & Leather	96	84	97
8	Structural Work	1,228	2,070	1,566
80	Metal Fabrication	139	117	78
86	Construction Occupations	425	1,306	1,234
9	Miscellaneous	863	977	750
90	Motor Freight Occupations	127	175	169
92	Packaging and Material Handling	579	641	432

Source: Labor Market Information Analytical Table Series  
U. S. Department of Labor



Table 15  
Job Bank Openings  
Average Pay by Occupational Category  
Massachusetts Job Banks  
March 1979

	State			Lawrence			Boston Metro			Springfield			Taunton			Worcester		
	Total Openings	Average Pay		Total Openings	Average Pay		Total Openings	Average Pay		Total Openings	Average Pay		Total Openings	Average Pay		Total Openings	Average Pay	
<b>Total All Occupations</b>	<b>21,671</b>	<b>\$ 8,245</b>		<b>4,041</b>	<b>\$ 8,152</b>	<b>5,602</b>	<b>\$ 8,828</b>	<b>2,978</b>	<b>\$ 8,169</b>	<b>5,068</b>	<b>\$ 7,914</b>	<b>3,992</b>	<b>\$ 7,994</b>					
Prof., Tech., Managerial	3,793	10,294		733	9,394	1,046	12,032	556	9,863	808	9,614	650	9,704					
Architect & Engineering	193	14,682		40	12,131	138	16,878	40	12,589	66	11,605	52	11,902					
Mach. & Physical Sci.	119	13,804		16	13,265	61	16,285	7	9,689	11	9,152	24	11,489					
Social Sciences	27	11,055		8	9,007	8	14,350	5	12,824	4	7,503	2	8,743					
Medicine & Health	296	11,051		19	9,560	79	12,033	68	10,736	77	10,858	53	10,826					
Education	396	9,409		61	8,836	107	10,452	27	10,421	111	9,133	90	8,569					
Museum, Library	95	8,909		19	8,061	9	10,158	19	8,724	31	8,769	17	9,971					
Law, Jurisprudence	18	10,034		1	10,110	4	13,069	7	9,170	3	9,000	3	9,013					
Writing	17	9,658		--	--	2	10,420	7	8,667	1	9,360	6	10,611					
Art	51	9,646		4	9,398	18	10,142	8	8,890	16	9,387	5	10,102					
Entertainment	67	9,107		20	8,946	9	9,159	10	9,207	26	9,780	2	11,050					
Administrative Spec	667	10,141		125	9,689	205	11,265	122	9,211	119	9,679	96	10,077					
Managers	532	10,416		103	9,504	157	12,425	81	9,824	85	9,753	106	9,329					
Misc., Prof., Tech., Mgr	820	8,961		229	8,823	163	9,556	108	8,969	185	8,851	135	8,727					
Clerical Sales	4,962	7,537		854	7,594	1,579	7,767	491	7,386	1,009	7,331	1,029	7,402					
Steno. Typing & Rel.	2,466	7,538		467	7,616	859	7,767	228	7,187	499	7,409	433	7,326					
Computing Acc.t., Recor.	973	7,611		146	7,794	276	7,998	135	7,491	207	7,442	209	7,226					
Production & Stock Clerk	315	7,425		65	7,204	123	7,554	33	7,462	38	7,307	56	7,343					
Information Distr	296	7,166		39	7,124	79	7,375	18	7,817	53	7,227	107	6,774					
Misc. Clerical	301	7,619		75	7,611	48	8,247	27	6,825	60	6,990	91	7,928					
Salespersons Services	68	9,888		12	8,915	19	9,628	7	9,625	16	10,921	14	9,082					
Miscellaneous Sales	282	6,737		24	7,238	98	6,789	11	8,823	94	6,290	55	6,964					
Service	3,653	3,62/hr.		577	3,57/hr.	906	3,66/hr.	128	3,65/hr.	1,176	3,68/hr.	566	3,44/hr.					
Food & Beverage Prep.	901	3,36		154	3,31	291	3,48	108	3,30	161	3,29	187	3,26					
Misc. Personal Svc.	886	3,67		74	3,52	120	3,56	116	3,75	462	3,76	114	3,45					
Protective Services	604	3,72		151	3,70	113	3,32	81	4,05	214	3,82	125	3,70					
Building & Related	798	3,88		144	3,80	288	4,12	106	3,57	178	3,87	82	3,63					

Table 15  
Job Bank Openings  
Average Pay by Occupational Category  
Massachusetts Job Banks  
March 1979

	Slate			Lawrence			Boston Metro			Springfield			Taunton			Warehousing		
	Total Openings	Average Pay		Total Openings	Average Pay		Total Openings	Average Pay		Total Openings	Average Pay		Total Openings	Average Pay		Total Openings	Average Pay	
<u>Farming, Fishing,</u>																		
Forestry	777	\$3.77/hr		108	\$3.91/hr		113	\$4.30/hr		211	\$3.44/hr.		204	\$3.82/hr		141	\$3.78/hr	
Plant Farming	610	3.72		73	3.82		69	4.30		170	3.41		161	3.69		137	3.78	
Animal Farming	19	3.47		3	3.51		1	4.70		7	3.37		5	3.30		3	3.56	
Misc. Agriculture	4	4.00		3	4.00		0	--		--	--		1	--		--	--	
Fishing	4	4.64		--	--		0	--		--	--		4	4.64		--	--	
Forestry	139	4.08		29	4.15		43	4.17		34	3.62		32	4.48		1	4.59	
<u>Processing</u>																		
Ore Refining, Foundry	499	3.79		100	3.74		68	3.86		108	4.27		83	3.50		140	3.58	
Food, Tobacco	35	3.97		4	3.44		7	3.74		14	4.57		8	3.19		2	4.75	
Paper	70	3.73		17	3.92		21	3.37		7	5.22		13	3.73		12	3.76	
Petroleum Coal, Gas	4	4.32		2	3.89		0	--		2	4.76		--	--		--	--	
Chem., Plastics, Synthetics	2	3.00		--	--		2	3.00		--	--		--	--		--	--	
Wood & Wood Products	150	3.71		36	3.92		12	4.33		16	3.89		13	3.15		73	3.57	
Stone, Clay, Glass,	3	3.50		--	--		0	--		--	--		--	--		3	3.50	
Concrete	37	3.43		5	3.06		2	3.00		19	3.56		7	3.37		4	3.63	
Leather & Textiles	93	3.97		15	3.96		2	3.63		34	4.59		17	3.70		25	3.44	
<u>Machine Trades</u>																		
Metal Machining	1,715	4.09		308	3.90		365	4.45		284	4.07		343	3.92		415	4.05	
Metal Working	482	4.49		64	4.09		112	4.54		94	4.61		78	4.66		134	4.46	
Mechanics & Repair	311	3.57		39	3.42		61	3.72		53	3.53		95	3.68		63	3.39	
Printing	313	4.59		45	4.66		107	5.03		148	4.24		46	4.23		67	4.33	
Wood Machining	88	3.76		6	3.40		19	4.15		23	3.29		17	3.68		23	4.05	
Textiles	55	3.91		5	5.75		7	4.00		2	3.31		17	3.56		24	3.87	
	170	3.52		63	3.74		14	3.37		11	3.04		44	3.37		38	3.52	

Job Bank Openings  
Average Pay by Occupational Category  
Massachusetts Job Banks  
March 1979

	State			Lawrence			Boston Metro			Springfield			Taunton			Worcester		
	Total Openings	Average Pay	Total Openings	Average Pay	Total Openings	Average Pay	Total Openings	Average Pay	Total Openings	Average Pay	Total Openings	Average Pay	Total Openings	Average Pay	Total Openings	Average Pay		
<u>Benchwork</u>	1,501	\$3.42/hr	247	\$3.36/hr	431	\$3.73/hr	140	\$3.27/hr	431	\$3.22/hr	252	\$3.35/hr						
Metal Products	137	3.49	9	3.53	33	3.71	20	3.85	58	3.23	17	3.52						
Electrical Equipment	520	3.44	138	3.45	173	3.72	48	3.08	118	3.09	43	3.69						
Plastics Syn. Rubber	28	3.52	4	4.19	3	4.50	2	3.00	8	3.51	11	3.11						
Wood Products	82	3.43	6	3.71	7	5.63	4	3.17	4	3.13	61	3.19						
Textile, Leather	563	3.27	76	3.12	150	3.41	54	3.18	207	3.28	76	3.22						
<u>Structural</u>	2,460	4.32	693	4.36	453	4.61	338	4.17	601	4.05	325	4.46						
Metal Fabrication	159	4.30	22	4.50	56	4.43	17	4.34	36	3.72	28	4.61						
Welders	95	4.48	16	4.18	23	5.33	15	4.17	24	3.83	17	4.81						
Electrical	164	4.69	45	4.08	47	4.64	18	5.27	26	4.23	28	5.84						
Painting	166	4.65	38	4.50	51	4.66	28	5.00	30	4.10	19	5.31						
Excavating Grading etc.	22	4.86	4	4.77	1	6.00	5	4.60	2	4.50	10	4.99						
Construction n.e.c.	1,245	4.35	390	4.44	201	4.72	183	4.08	313	4.19	158	4.26						
<u>Miscellaneous</u>	2,311	3.60	421	3.53	641	3.80	372	3.57	413	3.46	464	3.54						
Motor Freight	351	4.09	87	3.97	81	4.02	44	4.32	63	4.04	76	4.20						
Packing, Material Hand.	1,584	3.48	260	3.40	483	3.76	263	3.50	263	3.16	315	3.39						
Prod. Distribution																		
of Utilities	81	4.36	5	4.16	9	5.11	8	4.76	46	4.19	13	4.31						
Graphic Art Work	50	3.94	15	4.08	12	3.87	6	3.35	8	4.35	9	3.83						

## V. Unemployment Trends and Characteristics

Seasonal variations aside, the unemployment rate for the Boston SMSA decreased steadily in 1978 for an annual average of 5.9 percent down from 7.8 percent in 1977. By dipping below 6.0 percent for the first time since 1971, the Boston SMSA annual average rate reflected the continuing decline in both the statewide and national rates.

The unadjusted rate declined from a high of 7.0 percent in January to a low of 4.2 percent in October an indication of the improvement of the economy within the SMSA. It then edged up in November and December following seasonal trends.

Total employment which is measured by a monthly survey of households rose by 52,646 to 1,286,446. In contrast to the annual average growth in total employment, total unemployment declined by 25,668. As a result, the total civilian labor force grew to 1,366,478.

Tables 21 and 22 contain information on claims activities in the Boston SMSA for 1978 and the first quarter 1979. The data for both initial claims and continued weeks claimed is for the survey week of each month.

For both initial and continued weeks claimed certain trends appeared including the seasonality of unemployment. High claim levels during the winter months are generally due to cutbacks in industries sensitive to weather conditions, such as contract construction. Seasonal increases in claims appear in summer months, particularly when manufacturing establishments shut down for July vacations. Despite these seasonal fluctuations in claims activities a gradual downward pattern is reflected in the 1978 over the year figures. In comparing first quarter 1978 and first quarter 1979, a slight decrease can be seen for both initial and continued claims in 1979. A downward to stabilizing pattern emerges after discounting the abnormally high February 1978 claim load which can be attributed to the month's severe weather conditions that caused the shut down of many of the establishments in the SMSA.

Claim loads, of course, are only part of the total unemployment picture. There are unemployed individuals who are not included in the claimant activity data. However, claims data does reflect general trends in unemployment and can be a useful tool in analyzing labor market conditions.

Table 16  
Unemployment  
Boston SMSA  
1978

	Employment	Unemployment	Labor Force	Unemployment Rate
January	1,265,323	94,013	1,359,336	7.0
February	1,257,770	90,586	1,348,356	6.8
March	1,275,537	78,932	1,354,469	5.9
April	1,271,224	75,160	1,346,384	5.6
May	1,278,422	73,003	1,351,425	5.4
June	1,314,219	97,370	1,411,589	6.9
July	1,317,903	88,031	1,405,934	6.3
August	1,298,404	93,012	1,391,416	6.7
September	1,265,989	76,908	1,342,897	5.7
October	1,291,988	56,902	1,348,890	4.2
November	1,301,040	65,700	1,366,740	4.8
December	1,299,536	70,767	1,370,303	5.2
Annual Average	1,286,446	80,032	1,366,478	5.9

Table 17  
Unemployment Rates  
For  
Boston SMSA-Massachusetts-United States  
1970-1978

	Boston SMSA	Massachusetts	United States
Period			
1970	4.0	4.6	4.9
1971	5.7	6.6	5.9
1972	6.5	6.4	5.6
1973	6.9	6.7	4.9
1974	7.1	7.2	5.6
1975	10.5	11.2	8.5
1976	9.1	9.5	7.7
1977	7.8	8.1	7.0
1978			
January	6.9	7.5	7.0
February	6.7	7.1	6.9
March	5.8	6.2	6.6
April	5.6	5.7	6.0
May	5.4	5.4	5.5
June	6.9	6.9	6.2
July	6.3	6.3	6.3
August	6.7	6.7	5.8
September	5.7	5.8	5.7
October	4.2	4.3	5.4
November	4.8	5.2	5.5
December	5.2	5.7	5.6
Annual Average	5.9	6.1	6.0
1979			
January	7.0	7.5	6.4
February	6.1	6.6	6.4
March	6.1	6.7	6.1



Table 19  
Unemployment Rates  
By  
CETA Area  
1977 - 1978

Area	Employed	Unemployed	Labor Force	Rate
<u>1978</u>				
Boston	288,164	22,337	310,501	7.2
Chelsea	41,681	3,265	44,946	7.3
EMHRDA	148,456	9,764	158,220	6.2
Medford	165,566	9,932	175,498	5.7
Newton	154,502	7,163	161,665	4.4
Norwood	74,176	3,721	77,897	4.8
Quincy	131,989	7,539	139,528	5.4
Salem	190,549	11,834	202,383	5.8
<u>1977</u>				
Boston	276,463	29,092	305,555	9.5
Chelsea	39,988	4,253	44,241	9.6
EMHRDA	142,428	12,717	155,145	8.1
Medford	158,843	12,935	171,778	7.5
Newton	148,229	9,329	157,558	5.9
Norwood	71,183	4,844	76,027	6.4
Quincy	126,630	9,819	136,449	7.2
Salem	183,031	14,918	197,940	7.5



## UNEMPLOYMENT RATES

FOR

BOSTON SMSA (SOLID) VS MASS (DASH) VS U.S. (DOT)

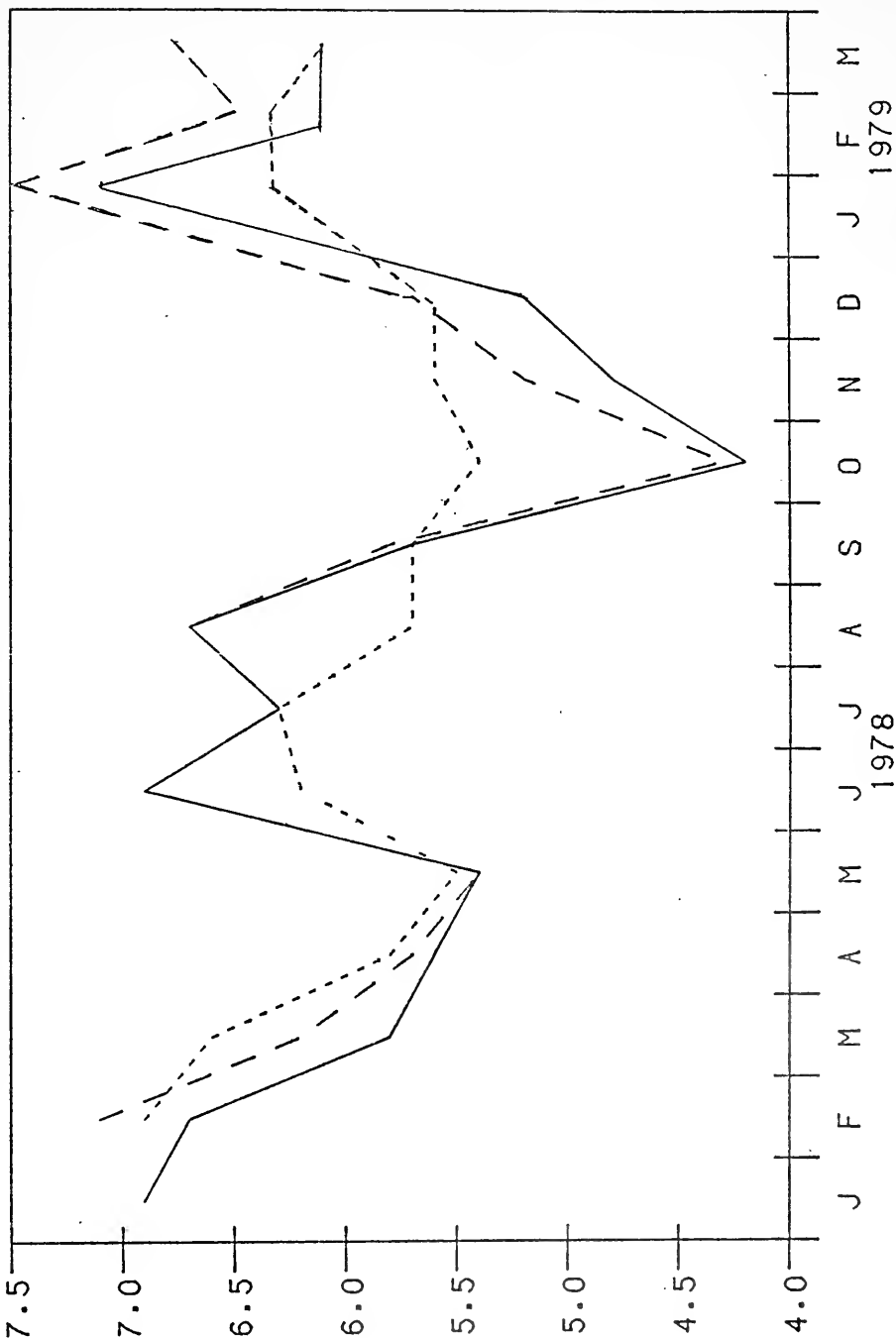
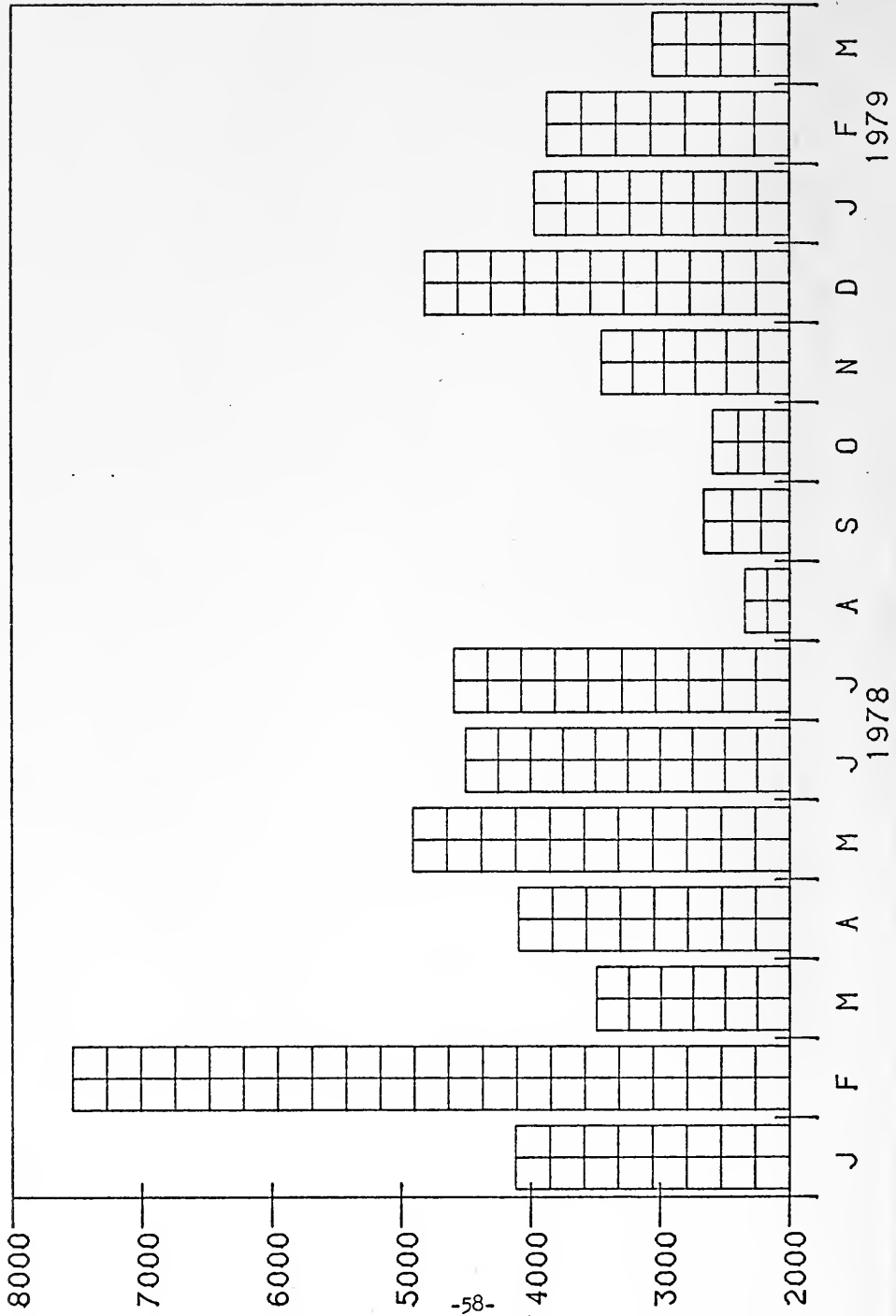


Table 21  
 BOSTON SMSA  
 INITIAL CLAIMS REGULAR PROGRAM



## BOSTON SMSA

## CONTINUED WEEKS CLAIMED REGULAR PROGRAM

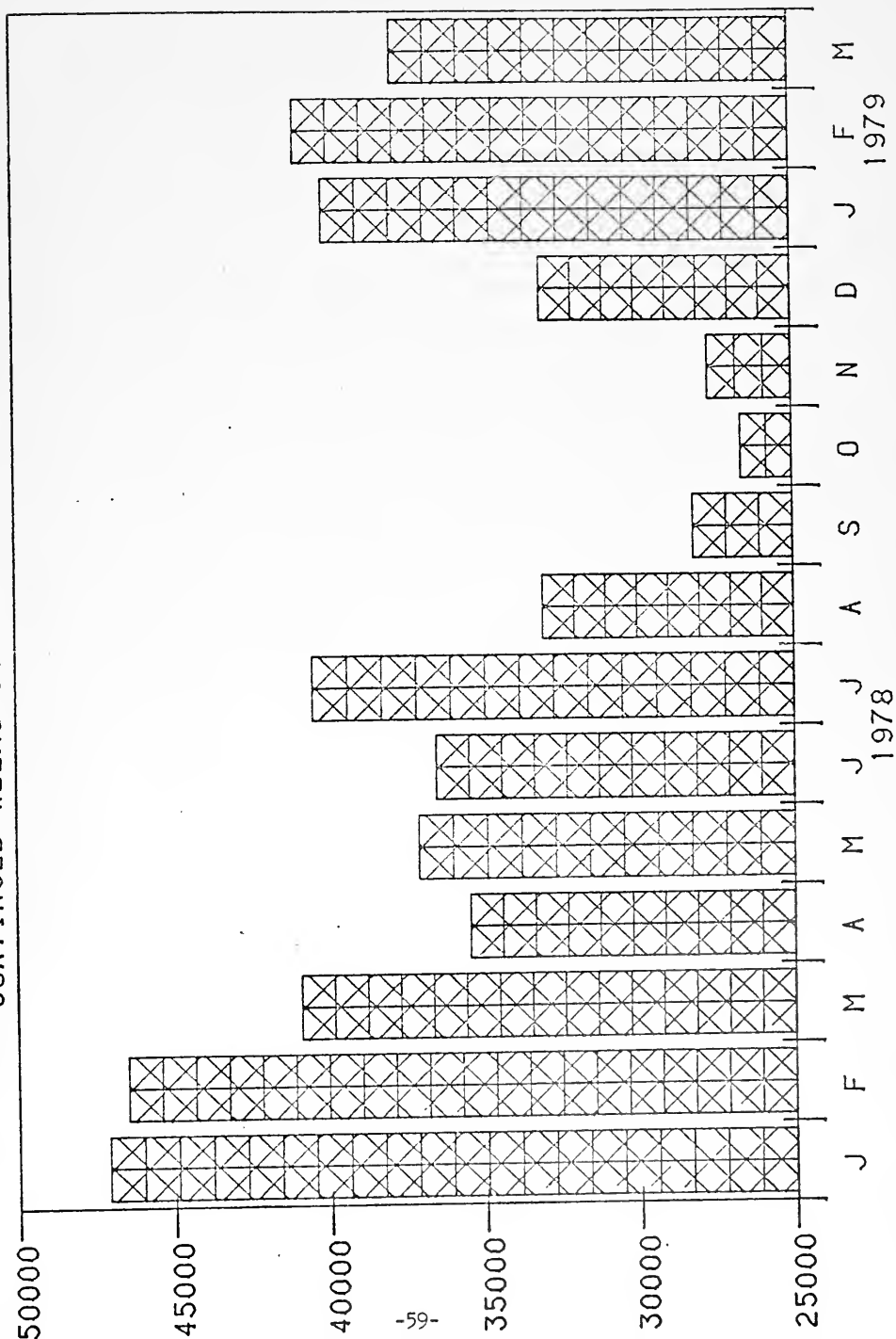


Table 23

Boston SMSA Benefit Payments  
By Industry and By Month  
1978

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>TOTAL ALL INDUSTRIES</b>	27,587	20,650	26,814	22,106	19,692	17,144	18,356	17,567	14,308	13,478	12,731	17,030
Percent of Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>Manufacturing</b>	21.5	21.5	20.8	22.7	23.5	22.3	23.3	21.9	23.2	24.9	26.5	25.0
Durable	7.9	8.9	8.8	9.7	10.2	9.7	9.6	9.7	10.1	10.4	10.4	9.0
Lumber & Wood	0.1	0.2	0.2	0.2	0.3	0.2	0.3	0.4	0.4	0.4	0.4	0.3
Furniture & Fixtures	0.8	0.9	0.9	0.7	0.7	0.8	0.6	0.6	0.7	0.6	0.9	0.7
Stone, Clay & Glass	0.5	0.5	0.4	0.7	0.5	0.3	0.3	0.2	0.2	0.3	0.4	0.4
Primary Metals	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Fabricated Metals	1.5	1.8	1.8	2.0	2.0	2.1	1.9	1.7	1.8	1.6	1.8	1.3
Machinery	1.1	1.2	1.3	1.4	1.4	1.5	1.7	1.4	1.3	1.4	1.7	1.3
Electrical Machinery	2.2	2.4	2.1	2.5	2.8	2.7	2.7	3.1	3.3	3.5	2.8	2.7
Transportation Equip.	0.4	0.6	0.7	0.6	0.7	0.5	0.4	0.5	0.6	0.6	1.1	0.7
Instruments	1.5	1.1	1.1	1.2	1.4	1.3	1.4	1.5	1.4	1.7	1.3	1.4
<b>Nonmanufacturing Goods</b>	13.7	12.6	12.0	13.0	13.4	12.5	13.7	12.2	13.1	14.5	16.0	16.0
Food	1.5	1.6	1.5	2.0	2.3	2.3	2.4	2.6	2.9	3.2	2.7	2.3
Textiles	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.6	0.7
Apparel	4.8	4.3	3.0	3.7	4.0	3.4	4.2	3.6	3.6	4.5	5.8	6.3
Paper	0.7	0.7	1.0	0.8	0.8	0.8	0.8	0.7	0.9	0.9	1.0	0.9
Printing	1.8	2.0	2.1	2.1	2.4	2.2	1.8	1.7	1.7	1.6	1.7	1.5
Chemicals	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.5	0.5	0.5
Petroleum	0.2	0.2	0.3	0.2	0.1	0.2	0.0	0.3	0.1	0.1	0.1	0.2
Rubber	1.1	1.1	1.3	1.5	1.3	1.2	1.1	0.9	1.0	0.9	1.0	0.8
Leather	1.8	1.0	1.1	1.1	1.1	1.0	1.9	1.1	1.5	1.6	1.9	1.9
Miscellaneous	0.9	0.8	1.0	0.9	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.9
<b>Nonmanufacturing</b>	78.5	78.5	79.2	77.3	76.4	77.7	76.7	78.1	76.8	75.1	73.5	75.0
Miscellaneous	2.5	2.6	2.6	1.4	0.7	0.3	0.3	0.3	0.3	0.4	1.0	2.5
Construction	22.5	26.2	26.9	21.5	15.5	12.2	9.7	8.7	9.3	10.5	11.9	19.6
Trans., Comm., Util.	4.2	4.6	4.2	4.6	5.0	5.1	8.1	8.8	5.7	5.2	5.3	5.0
Wholesale & Retail Trade	21.2	20.6	21.0	24.1	27.0	29.7	29.2	30.6	30.8	29.6	27.9	23.6
Fin., Ins., Real Estate	4.0	3.8	4.1	4.7	5.4	5.6	5.3	5.3	5.4	5.6	4.9	4.5
Services	16.1	14.6	14.6	15.1	16.5	18.6	18.5	19.6	21.2	20.0	19.0	17.0
Unclassified	7.8	6.0	5.7	5.8	6.1	6.0	5.2	4.4	3.7	3.3	3.1	2.5
State Government	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.4	0.3

Tables 24 through 33 contain information on selected characteristics of the insured unemployed for the Boston SMSA and the CETA areas located within the SMSA. This data was obtained from a sample survey of the active file of claimants filing for a particular week of unemployment compensation benefits under State and Federal laws and programs.

Table 24 compares the characteristics of the insured unemployed for the Boston SMSA during August-September 1978 with those for December 1978. Industry attachment data reveals the nonmanufacturing industries with the largest percentage of the benefit payments. However, this is not disproportionate with their 79 percent share of the total employment in the SMSA. Occupationally, professional, technical and management work and clerical and sales work, both of which are represented in all industries share the lead in benefits payments.

Table 24

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
BOSTON LABOR AREA

	DECEMBER 1978		AUGUST-SEPT. 1978	
	ALL PROGRAMS		ALL PROGRAMS	
	NUMBFR	PERCENT	NUMBER	PERCENT
TOTAL	28046	100.0	41164	100.0
AGE				
UNDER 20	-	-	-	-
UNDER 25	5120	18.3	6787	16.5
25 - 34	8240	29.4	11459	27.8
35 - 44	4464	15.9	7311	17.8
45 - 54	4070	14.5	6313	15.3
55 - 64	3513	12.5	5234	12.7
65 & OVER	2530	9.0	3884	9.4
I.N.A.	108	.4	176	.4
SEX				
MEN	16669	59.4	22773	55.3
WOMEN	11377	40.6	18383	44.7
I.N.A.	-	-	8	-
ETHNIC GROUP				
WHITE	25502	90.9	36615	88.9
NON-WHITE	2255	8.0	3960	9.6
I.N.A.	288	1.0	589	1.4
SPANISH SURNAME	337	1.2	759	1.8
OCCUPATION				
PROF., TECH., MGT	6878	24.5	9516	23.1
CLERICAL/SALES	6898	24.6	9042	22.0
SERVICES	3220	11.5	5315	12.9
FARM, FISH, FOR.	273	1.0	270	.7
PROCESSING	378	1.3	651	1.6
MACHINE TRADES	1512	5.4	2198	5.3
BENCH WORK	1740	6.2	2446	5.9
STRUCTURAL	3415	12.2	4714	11.5
MISC. WORK	3715	13.2	6963	16.9
I.N.A.	18	.1	48	.1
RECENT DURATION				
0-9 WEEKS	13455	48.0	21159	51.4
10-19 WEEKS	9668	34.5	10673	25.9
20-29 WEEKS	4681	16.7	6423	15.6
30 + WEEKS	242	.9	2705	6.6

Table 24 (continued)

CONTINUED -1

DECEMBER 1978

AUGUST-SEPT. 1978

ALL PROGRAMS

ALL PROGRAMS

	NUMBER	PERCENT	NUMBER	PERCENT
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## INDUSTRY ATTACH.

MANUFACTURING	5179	18.5	7909	19.2
CON. CONSTRUCT	1897	6.8	2870	7.0
TRAN./UTIL.	1004	3.6	3089	7.5
WHOL/RET. TRADE	5510	19.6	9343	22.7
FIN/INS/R.E.	1132	4.0	1715	4.2
SERVICES	5521	19.7	8239	20.0
GOVERNMENTS	6598	23.5	7279	17.7
OTHERS	92	.3	146	.4
I.N.A.	1112	4.0	575	1.4

## AVE. WEEKLY WAGE

UNDER \$100	3582	12.8	8043	19.5
\$100 - \$149	5457	19.5	8944	21.7
\$150 - \$199	7807	27.8	8604	20.9
\$200 - \$249	4287	15.3	5520	13.4
\$250 - \$299	2340	8.3	3199	7.8
\$300 OR MORE	4240	15.1	5522	13.4
I.N.A.	333	1.2	1331	3.2

## SEPARATION REASON

LAYOFF	22720	81.0	34963	84.9
QUIT VOL. RET.	111	.4	211	.5
QUIT PREGNANCY	53	.2	32	.1
QUIT OTHER	953	3.4	1128	2.7
DISCHARGES	2484	8.9	4320	10.5
LABOR DISPUTE	66	.2	92	.2
OTHER/INA	1660	5.9	418	1.0

Table 25

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
BOSTON CETA

DECEMBER 1978

	ALL PROGRAMS		REGULAR PRO- GRAMS	PSE
	NUMBER	PERCENT	NUMBER	NUMBER
TOTAL	6387	100.0	6164	223
AGE				
UNDER 20	-	-	-	-
UNDER 25	1125	17.6	1089	37
25 - 34	2153	33.7	2037	117
35 - 44	1102	17.3	1064	37
45 - 54	800	12.5	778	22
55 - 64	669	10.5	658	10
65 & OVER	521	8.2	521	-
I.N.A.	16	.3	16	-
SEX				
MEN	3838	60.1	3682	157
WOMEN	2549	39.9	2482	66
I.N.A.	-	-	-	-
ETHNIC GROUP				
WHITE	4593	71.9	4440	153
NON-WHITE	1778	27.8	1711	67
I.N.A.	16	.3	13	3
SPANISH SURNAME	264	4.1	252	12
OCCUPATION				
PROF., TECH., MGT	1388	21.7	1338	50
CLERICAL/SALES	1348	21.1	1305	43
SERVICES	1034	16.2	993	41
FARM, FISH, FOR.	32	.5	15	17
PROCESSING	91	1.4	91	-
MACHINE TRADES	383	6.0	372	11
BENCH WORK	500	7.8	500	-
STRUCTURAL	709	11.1	670	39
MISC. WORK	898	14.1	876	22
I.N.A.	3	-	3	-
RECENT DURATION				
0-9 WEEKS	2890	45.2	2775	115
10-19 WEEKS	2316	36.3	2223	93
20-29 WEEKS	1101	17.2	1085	16
30 + WEEKS	80	1.3	80	-



Table 25 (continued)

	ALL PROGRAMS		REGULAR	PSE
	NUMBER	PERCENT	PRO-GRAMS NUMBER	NUMBER
INDUSTRY ATTACH.				
MANUFACTURING	1290	20.2	1290	-
CON. CONSTRUCT	418	6.5	418	-
TRAN./UTIL.	308	4.8	308	-
WHOL/RET. TRADE	1219	19.1	1219	-
FIN/INS/R.E.	316	4.9	316	-
SERVICES	1462	22.9	1457	6
GOVERNMENTS	1029	16.1	817	212
OTHERS	9	.1	6	3
I.N.A.	337	5.3	334	3
AVE. WEEKLY WAGE				
UNDER \$100	993	15.5	985	9
\$100 - \$149	1421	22.2	1374	47
\$150 - \$199	1599	25.0	1459	141
\$200 - \$249	1018	15.9	1003	15
\$250 - \$299	547	8.6	539	8
\$300 OR MORE	787	12.3	783	4
I.N.A.	22	.3	22	-
SEPARATION REASON				
LAYOFF	5062	79.3	4855	207
QUIT VOL. RET.	12	.2	9	3
QUIT PREGNANCY	2	-	2	-
QUIT OTHER	211	3.3	204	7
DISCHARGES	713	11.2	707	6
LABOR DISPUTE	14	.2	14	-
OTHER/INA	372	5.8	372	-

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
CAMBRIDGE CETA

DECEMBER 1978

	ALL PROGRAMS		REGULAR PRO- GRAMS	PSE
	NUMBER	PERCENT	NUMBER	NUMBER
TOTAL	3379	100.0	3124	254
AGE				
UNDER 20	-	-	-	-
UNDER 25	603	17.8	537	66
25 - 34	1180	34.9	1070	110
35 - 44	468	13.9	434	34
45 - 54	422	12.5	392	30
55 - 64	359	10.6	348	11
65 & OVER	332	9.8	329	3
I.N.A.	14	.4	14	-
SEX				
MEN	1894	56.1	1716	178
WOMEN	1484	43.9	1408	76
I.N.A.	-	-	-	-
ETHNIC GROUP				
WHITE	3181	94.1	2935	246
NON-WHITE	182	5.4	174	8
I.N.A.	15	.4	15	-
SPANISH SURNAME	34	1.0	30	4
OCCUPATION				
PROF., TECH., MGT	1000	29.6	945	55
CLERICAL/SALES	778	23.0	747	31
SERVICES	344	10.2	306	39
FARM, FISH, FOR.	25	.7	17	8
PROCESSING	41	1.2	41	-
MACHINE TRADES	156	4.6	145	12
BENCH WORK	252	7.5	252	-
STRUCTURAL	341	10.1	285	57
MISC. WORK	432	12.8	383	50
I.N.A.	8	.2	4	4
RECENT DURATION				
0-9 WEEKS	1456	43.1	1322	133
10-19 WEEKS	1272	37.6	1173	98
20-29 WEEKS	582	17.2	559	22
30 + WEEKS	69	2.0	69	-

CONTINUED -1

Table 26 (continued)

	ALL PROGRAMS		REGULAR PROJ- GRAMS	PSE
	NUMBER	PERCENT	NUMBER	NUMBER
INDUSTRY ATTACH.				
MANUFACTURING	599	17.7	599	-
CON. CONSTRUCT	145	4.3	145	-
TRAN./UTIL.	133	3.9	133	-
WHOL/RET. TRADE	594	17.6	594	-
FIN/INS/R.E.	121	3.6	121	-
SERVICES	773	22.9	773	-
GOVERNMENTS	757	22.4	502	254
OTHERS	12	.4	12	-
I.N.A.	245	7.3	245	-
AVE. WEEKLY WAGE				
UNDER \$100	421	12.5	414	7
\$100 - \$149	636	18.8	611	25
\$150 - \$199	1011	29.9	817	194
\$200 - \$249	512	15.2	486	26
\$250 - \$299	301	8.9	299	3
\$300 OR MORE	486	14.4	486	-
I.N.A.	12	.4	12	-
SEPARATION REASON				
LAYOFF	2654	78.5	2407	248
QUIT VOL. RET.	10	.3	10	-
QUIT PREGNANCY	9	.3	9	-
QUIT OTHER	137	4.1	137	-
DISCHARGES	320	9.5	314	7
LABOR DISPUTE	-	-	-	-
OTHER/INA	248	7.3	248	-

Table 27

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
CHELSEA CETA

DECEMBER 1978

	ALL PROGRAMS NUMBER	PERCENT	REGULAR PRO- GRAMS NUMBER	PSE NUMBER
TOTAL	1152	100.0	936	216
AGE				
UNDER 20	-	-	-	-
UNDER 25	211	18.3	177	33
25 - 34	343	29.8	251	92
35 - 44	121	10.5	106	15
45 - 54	165	14.3	134	31
55 - 64	185	16.1	148	37
65 & OVER	127	11.0	119	8
I.N.A.	-	-	-	-
SEX				
MEN	708	61.5	536	173
WOMEN	444	38.5	400	44
I.N.A.	-	-	-	-
ETHNIC GROUP				
WHITE	1127	97.8	920	207
NON-WHITE	25	2.2	16	9
I.N.A.	-	-	-	-
SPANISH SURNAME	10	.9	8	3
OCCUPATION				
PROF., TECH., MGT	183	15.9	145	38
CLERICAL/SALES	297	25.8	248	49
SERVICES	153	13.3	129	24
FARM, FISH, FOR.	13	1.1	5	8
PROCESSING	21	1.8	21	-
MACHINE TRADES	64	5.6	62	3
HEAVY WORK	82	7.1	67	14
STRUCTURAL	140	12.2	105	35
MISC. WORK	199	17.3	153	46
I.N.A.	-	-	-	-
RECENT DURATION				
0-9 WEEKS	572	49.7	488	84
10-19 WEEKS	425	36.9	336	90
20-29 WEEKS	151	13.1	112	39
30 + WEEKS	4	.3	-	4

Table 27 (continued)

	ALL PROGRAMS		REGULAR PRO- GRAMS	PSE
	NUMBER	PERCENT	NUMBER	NUMBER
INDUSTRY ATTACH.				
MANUFACTURING	204	17.7	204	-
CON. CONSTRUCT	67	5.8	67	-
TRAN./UTIL.	62	5.4	62	-
WHOL/RET, TRADE	236	20.5	236	-
FIN/INS/R.E.	43	3.7	43	-
SERVICES	251	21.8	251	-
GOVERNMENTS	279	24.2	62	216
OTHERS	3	.3	3	-
I.N.A.	8	.7	8	-
AVE. WEEKLY WAGE				
UNDER \$100	177	15.4	158	19
\$100 - \$149	259	22.5	220	40
\$150 - \$199	319	27.7	180	139
\$200 - \$249	140	12.2	126	15
\$250 - \$299	63	5.5	63	-
\$300 OR MORE	187	16.2	183	4
I.N.A.	5	.4	5	-
SEPARATION REASON				
LAYOFF	1008	87.5	796	211
QUIT VOL. RET.	3	.3	3	-
QUIT PREGNANCY	10	.9	10	-
QUIT OTHER	31	2.7	29	3
DISCHARGES	50	4.3	48	3
LABOR DISPUTE	-	-	-	-
OTHER/INA	50	4.3	50	-

Table 28

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
LYNN CETA

DECEMBER 1978

	ALL PROGRAMS		REGULAR PRO- GRAMS	PSF
	NUMBER	PERCENT	NUMBER	NUMBER
TOTAL	1040	100.0	851	184
AGE				
UNDER 20	-	-	-	-
UNDER 25	175	16.8	129	46
25 - 34	290	27.9	216	73
35 - 44	178	17.1	147	28
45 - 54	126	12.1	98	24
55 - 64	135	13.0	122	12
65 & OVER	132	12.7	132	-
I.N.A.	6	.6	6	-
SEX				
MEN	665	63.9	496	162
WOMEN	376	36.2	354	21
I.N.A.	-	-	-	-
ETHNIC GROUP				
WHITE	976	93.8	811	159
NON-WHITE	28	2.7	9	18
I.N.A.	37	3.6	31	6
SPANISH SURNAME	3	.3	3	-
OCCUPATION				
PROF., TECH., MGT	148	14.2	124	24
CLERICAL/SALES	233	22.4	208	25
SERVICES	141	13.6	116	25
FARM, FISH, FOR.	6	.6	6	-
PROCESSING	30	2.9	30	-
MACHINE TRADES	86	8.3	77	9
BENCH WORK	77	7.4	77	-
STRUCTURAL	120	11.5	83	37
MISC. WORK	199	19.1	129	64
I.N.A.	-	-	-	-
RECENT DURATION				
0-9 WEEKS	539	51.8	463	76
10-19 WEEKS	306	29.4	230	74
20-29 WEEKS	189	18.2	152	34
30 + WEEKS	6	.6	6	-

CONTINUED -1

Table 28 (continued)

	ALL PROGRAMS		REGULAR PRO- GRAMS	PSE
	NUMBER	PERCENT	NUMBER	NUMBER
INDUSTRY ATTACH.				
MANUFACTURING	205	19.7	205	-
CON. CONSTRUCT	49	4.7	49	-
TRAN./UTIL.	21	2.0	21	-
WHOL/RET. TRADE	171	16.4	171	-
FIN/INS/R.E.	21	2.0	21	-
SERVICES	193	18.6	193	-
GOVERNMENTS	325	31.3	135	184
OTHERS	9	.9	9	-
I.N.A.	45	4.3	45	-
AVE. WEEKLY WAGE				
UNDER \$100	171	16.4	168	3
\$100 - \$149	190	18.3	169	21
\$150 - \$199	306	29.4	186	113
\$200 - \$249	146	14.0	110	36
\$250 - \$299	58	5.6	58	-
\$300 OR MORE	104	10.0	104	-
I.N.A.	64	6.2	55	9
SEPARATION REASON				
LAYOFF	850	81.7	663	180
QUIT VOL. RET.	12	1.2	12	-
QUIT PREGNANCY	-	-	-	-
QUIT OTHER	1	1.7	18	-
DISCHARGES	52	5.0	49	3
LABOR DISPUTE	12	1.2	12	-
OTHER/INA	95	9.1	95	-

Table 29

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
MEDFORD CETA

DECEMBER 1978

	ALL PROGRAMS		REGULAR PRO- GRAMS	PSE
	NUMBER	PERCENT	NUMBER	NUMBER
TOTAL	3798	100.0	3168	631
AGE				
UNDER 20	-	-	-	-
UNDER 25	762	20.1	627	135
25 - 34	956	25.2	789	167
35 - 44	581	15.3	491	90
45 - 54	604	15.9	475	129
55 - 64	540	14.2	444	96
65 & OVER	329	8.7	316	13
I.N.A.	26	.7	26	-
SEX				
MEN	2362	62.2	1884	477
WOMEN	1437	37.8	1283	153
I.N.A.	-	-	-	-
ETHNIC GROUP				
WHITE	3699	97.4	3091	607
NON-WHITE	64	1.7	41	23
I.N.A.	36	.9	36	-
SPANISH SURNAME	4	.1	-	4
OCCUPATION				
PROF., TECH., MGT	784	20.6	655	129
CLERICAL/SALES	956	25.2	855	101
SERVICES	380	10.0	309	71
FARM, FISH, FOR.	50	1.3	19	30
PROCESSING	34	.9	34	-
MACHINE TRADES	231	6.1	214	17
BENCH WORK	249	6.6	237	13
STRUCTURAL	526	13.8	392	134
MISC. WORK	589	15.5	453	135
I.N.A.	-	-	-	-
RECENT DURATION				
0-9 WEEKS	1888	49.7	1676	212
10-19 WEEKS	1330	35.0	1004	326
20-29 WEEKS	563	14.8	471	92
30 + WEEKS	16	.4	16	-



Table 29 (continued)

	ALL PROGRAMS		REGULAR PRI- GRAMS	PSF
	NUMBER	PERCENT	NUMBER	NUMBER
INDUSTRY ATTACH.				
MANUFACTURING	733	19.3	733	-
CON. CONSTRUCT	311	8.2	311	-
TRAN./UTIL.	101	2.7	101	-
WHOL/RET.TRADE	765	20.1	763	3
FIN/INS/R.E.	141	3.7	141	-
SERVICES	581	15.3	576	6
GOVERNMENTS	1080	28.4	457	622
OTHERS	16	.4	16	-
I.N.A.	70	1.8	70	-
AVE. WEEKLY WAGE				
UNDER \$100	410	10.8	403	6
\$100 - \$149	673	17.7	609	64
\$150 - \$199	1112	29.3	730	382
\$200 - \$249	674	17.7	519	155
\$250 - \$299	308	8.1	297	11
\$300 OR MORE	586	15.4	580	6
I.N.A.	35	.9	28	6
SEPARATION REASON				
LAYOFF	3084	81.2	2475	609
QUIT VOL. RET.	26	.7	22	4
QUIT PREGNANCY	11	.3	11	-
QUIT OTHER	117	3.1	114	3
DISCHARGES	310	8.2	295	15
LABOR DISPUTE	27	.7	27	-
OTHER/INA	224	5.9	224	-

Table 30

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
NEWTON CETA

DECEMBER 1978

	ALL PROGRAMS		REGULAR PRO- GRAMS	PSE
	NUMBER	PERCENT	NUMBER	NUMBER
TOTAL	2087	100.0	1808	279
AGE				
UNDER 20	-	-	-	-
UNDER 25	319	15.3	236	82
25 - 34	637	30.5	531	106
35 - 44	324	15.5	295	30
45 - 54	312	14.9	283	29
55 - 64	209	10.0	176	32
65 & OVER	263	12.6	263	-
I.N.A.	23	1.1	23	-
SEX				
MEN	1109	53.1	918	191
WOMEN	977	46.8	890	88
I.N.A.	-	-	-	-
ETHNIC GROUP				
WHITE	2011	96.4	1737	274
NON-WHITE	76	3.6	71	5
I.N.A.	-	-	-	-
SPANISH SURNAME	4	.2	4	-
OCCUPATION				
PROF., TECH., MGT	789	37.8	685	104
CLERICAL/SALES	613	29.4	565	48
SERVICES	155	7.4	126	28
FARM, FISH, FOR.	50	2.4	11	39
PROCESSING	26	1.2	23	3
MACHINE TRADES	52	2.5	50	3
BENCH WORK	120	5.7	117	3
STRUCTURAL	160	7.7	130	30
MISC. WORK	122	5.8	99	22
I.N.A.	-	-	-	-
RECENT DURATION				
0-9 WEEKS	992	47.5	828	164
10-19 WEEKS	748	35.8	653	95
20-29 WEEKS	341	16.3	321	20
30 + WEEKS	6	.3	6	-

Table 30 (continued)

CONTINUED -1

	ALL PROGRAMS		REGULAR PRO- GRAMS	PSE
	NUMBER	PERCENT	NUMBER	NUMBER
INDUSTRY ATTACH.				
MANUFACTURING	316	15.1	316	-
CON. CONSTRUCT	142	6.8	142	-
TRAN./UTIL.	65	3.1	65	-
WHOL/RET. TRADE	411	19.7	411	-
FIN/INS/R.E.	95	4.6	95	-
SERVICES	498	23.9	473	25
GOVERNMENTS	451	21.6	197	254
OTHERS	11	.5	11	-
I.N.A.	97	4.6	97	-
AVE. WEEKLY WAGE				
UNDER \$100	238	11.4	235	3
\$100 - \$149	398	19.1	340	58
\$150 - \$199	508	24.3	334	174
\$200 - \$249	346	16.6	305	41
\$250 - \$299	177	8.5	174	3
\$300 OR MORE	412	19.7	412	-
I.N.A.	8	.4	8	-
SEPARATION REASON				
LAYOFF	1613	77.3	1343	271
QUIT VOL. RET.	8	.4	8	-
QUIT PREGNANCY	6	.3	6	-
QUIT OTHER	98	4.7	92	6
DISCHARGES	222	10.6	219	3
LABOR DISPUTE	-	-	-	-
OTHER/INA	140	6.7	140	-

Table 31

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
NORWOOD CETA

DECEMBER 1978

	ALL PROGRAMS		REGULAR PRO- GRAMS	PSE
	NUMBER	PERCENT	NUMBER	NUMBER
TOTAL	1541	100.0	1309	232
AGE				
UNDER 20	-	-	-	-
UNDER 25	300	19.5	258	41
25 - 34	359	23.3	289	70
35 - 44	269	17.5	225	45
45 - 54	281	18.2	237	45
55 - 64	224	14.5	203	21
65 & OVER	104	6.7	97	7
I.N.A.	2	.1	-	2
SEX				
MEN	893	57.9	778	115
WOMEN	647	42.0	530	117
I.N.A.	-	-	-	-
ETHNIC GROUP				
WHITE	1533	99.5	1301	232
NON-WHITE	5	.3	5	-
I.N.A.	3	.2	3	-
SPANISH SURNAME	-	-	-	-
OCCUPATION				
PROF., TECH., MGT	416	27.0	324	92
CLERICAL/SALES	395	25.6	336	59
SERVICES	170	11.0	155	15
FARM, FISH, FOR.	17	1.1	9	7
PROCESSING	8	.5	8	-
MACHINE TRADES	76	4.9	74	2
BENCH WORK	60	3.9	52	7
STRUCTURAL	206	13.4	173	33
MISC. WORK	194	12.6	177	17
I.N.A.	-	-	-	-
RECENT DURATION				
0-9 WEEKS	831	53.9	697	134
10-19 WEEKS	478	31.0	392	86
20-29 WEEKS	217	14.1	207	9
30 + WEEKS	15	1.0	12	2

Table 31 (continued)

ALL PROGRAMS		REGULAR	PSE
		PRO-	
NUMBER	PERCENT	GRAMS	NUMBER

## INDUSTRY ATTACH.

MANUFACTURING	310	20.1	308	2
CON. CONSTRUCT	125	8.1	125	-
TRAN./UTIL.	44	2.9	44	-
WHOL./RET. TRADE	368	23.9	366	2
FIN/INS/R.E.	57	3.7	57	-
SERVICES	217	14.1	197	19
GOVERNMENTS	351	22.8	148	203
OTHERS	5	.3	5	-
I.N.A.	63	4.1	59	5

## AVE. WEEKLY WAGE

UNDER \$100	176	11.4	164	12
\$100 - \$149	213	13.8	183	30
\$150 - \$199	418	27.1	276	142
\$200 - \$249	235	15.2	201	34
\$250 - \$299	142	9.2	135	7
\$300 OR MORE	303	19.7	298	5
I.N.A.	54	3.5	51	2.

## SEPARATION REASON

LAYOFF	1288	83.6	1067	220
QUIT VOL. RET.	-	-	-	-
QUIT PREGNANCY	-	-	-	-
QUIT OTHER	43	2.8	41	2
DISCHARGES	127	8.2	118	9
LABOR DISPUTE	2	.1	2	-
OTHER/IN	80	5.2	80	-

Table 32

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
QUINCY CETA

DECEMBER 1978

	ALL PROGRAMS		REGULAR PRO- GRAMS	PSE
	NUMBER	PERCENT	NUMBER	NUMBER
TOTAL	3036	100.0	2604	432
AGE				
UNDER 20	-	-	-	-
UNDER 25	565	18.6	460	105
25 - 34	789	26.0	662	127
35 - 44	536	17.7	461	75
45 - 54	389	12.8	342	48
55 - 64	432	14.2	363	69
65 & OVER	312	10.3	303	9
I.N.A.	12	.4	12	-
SEX				
MEN	1859	61.2	1531	328
WOMEN	1177	38.8	1073	104
I.N.A.	-	-	-	-
ETHNIC GROUP				
WHITE	2989	98.5	2562	427
NON-WHITE	21	.7	19	2
I.N.A.	26	.9	23	3
SPANISH SURNAME	5	.2	2	2
OCCUPATION				
PROF., TECH., MGT	760	25.0	646	114
CLERICAL/SALES	875	28.8	786	89
SERVICES	255	8.4	210	46
FARM, FISH, FOR.	30	1.0	16	14
PROCESSING	32	1.1	27	5
MACHINE TRADES	128	4.2	118	9
BENCH WORK	148	4.9	137	11
STRUCTURAL	510	16.8	400	110
MISC. WORK	293	9.7	259	35
I.N.A.	5	.2	5	-
RECENT DURATION				
0-9 WEEKS	1325	43.6	1211	114
10-19 WEEKS	1103	36.3	888	215
20-29 WEEKS	592	19.5	495	97
30+ WEEKS	16	.5	9	7

Table 32 (continued)

	ALL PROGRAMS		REGULAR PRO- GRAMS	PSE
	NUMBER	PERCENT	NUMBER	NUMBER
INDUSTRY ATTACH.				
MANUFACTURING	533	17.6	531	2
CON. CONSTRUCT	250	8.2	247	2
TRAN./UTIL.	106	3.5	106	-
WHOL/RET. TRADE	673	22.2	671	2
FIN/INS/R.E.	153	5.0	153	-
SERVICES	505	16.6	500	5
GOVERNMENTS	747	24.6	326	421
OTHERS	5	.2	5	-
I.N.A.	64	2.1	64	-
AVE. WEEKLY WAGE				
UNDER \$100	342	11.3	333	9
\$100 - \$149	577	19.0	491	87
\$150 - \$199	832	27.4	557	274
\$200 - \$249	417	13.7	364	53
\$250 - \$299	307	10.1	300	7
\$300 OR MORE	551	18.1	549	2
I.N.A.	10	.3	10	-
SEPARATION REASON				
LAYOFF	2384	78.5	1961	423
QUIT VOL. RET.	9	.3	9	-
QUIT PREGNANCY	5	.2	5	-
QUIT OTHER	155	5.1	153	2
DISCHARGES	260	8.6	254	7
LABOR DISPUTE	-	-	-	-
OTHER/INA	222	7.3	222	-

Table 33  
SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
SALEM CETA

DECEMBER 1978

	ALL PROGRAMS		REGULAR PRO- GRAMS	PSE
	NUMBER	PERCENT	NUMBER	NUMBER
TOTAL	3390	100.0	2604	780
AGE				
UNDER 20	-	-	-	-
UNDER 25	656	19.4	486	170
25 - 34	916	27.0	662	255
35 - 44	459	13.5	351	105
45 - 54	568	16.8	422	143
55 - 64	487	14.4	398	89
65 & OVER	296	8.7	278	18
I.N.A.	8	.2	8	-
SFX				
MEN	2124	62.7	1559	558
WOMEN	1267	37.4	1045	222
I.N.A.	-	-	-	-
ETHNIC GROUP				
WHITE	3270	96.5	2536	728
NON-WHITE	25	.7	14	11
I.N.A.	96	2.8	55	41
SPANISH SURNAME	11	.3	5	5
OCCUPATION				
PROF., TECH., MGT	735	21.7	574	160
CLERICAL/SALES	688	20.3	562	126
SERVICES	394	11.6	328	66
FARM, FISH, FOR.	206	6.1	193	11
PROCESSING	103	3.0	99	5
MACHINE TRADES	167	4.9	154	14
BENCH WORK	125	3.7	117	8
STRUCTURAL	376	11.1	236	138
MISC. WORK	594	17.5	340	253
I.N.A.	3	.1	3	-
RECENT DURATION				
0-9 WEEKS	1931	57.0	1556	375
10-19 WEEKS	926	27.3	695	231
20-29 WEEKS	518	15.3	338	174
30 + WEEKS	16	.5	16	-



CONTINUED -1

Table 33 (continued)

	ALL PROGRAMS		REGULAR PRO- GRAMS	PSE
	NUMBER	PERCENT	NUMBER	NUMBER
INDUSTRY ATTACH.				
MANUFACTURING	512	15.1	512	-
CON. CONSTRUCT	165	4.9	165	-
TRAN./UTIL.	123	3.6	123	-
WHOL/RET. TRADE	538	15.9	535	2
FIN/INS/R.E.	78	2.3	78	-
SERVICES	575	17.0	570	5
GOVERNMENTS	1110	32.7	332	772
OTHERS	196	5.8	196	-
I.N.A.	93	2.7	93	-
AVE. WEEKLY WAGE				
UNDER \$100	423	12.5	381	42
\$100 - \$149	620	18.3	495	125
\$150 - \$199	1063	31.4	574	483
\$200 - \$249	479	14.1	391	88
\$250 - \$299	218	6.4	205	13
\$300 OR MORE	516	15.2	498	18
I.N.A.	71	2.1	61	10
SEPARATION REASON				
LAYOFF	3046	89.9	2287	753
QUIT VOL. RET.	33	1.0	33	-
QUIT PREGNANCY	-	-	-	-
QUIT OTHER	39	1.2	33	6
DISCHARGES	138	4.1	129	8
LABOR DISPUTE	-	-	-	-
OTHER/INA	135	4.0	122	13

## VI. Estimate of Need for Manpower Services

### A. Fiscal Year 1980 Projections

It is projected that 198,168 individuals over 18 years of age in the SMSA will be economically disadvantaged during fiscal year 1980. An economically disadvantaged person is one who is a member of a family (1) which received cash welfare payments or (2) whose annual income in relation to family size and location represents 70 percent of the lower living income level issued by the Department of Labor, Bureau of Labor Statistics, or poverty levels established by the federal Office of Management and Budget.

Of the 198,168 disadvantaged individuals in the SMSA 73,002 or 37 percent will reside in the City of Boston prime sponsor CETA area, and 23,652 or 12 percent will reside in the EMHRDA prime sponsor CETA area. Within the SMSA 20 percent of the disadvantaged will be minority group members, for the EMHRDA area 11 percent will be minorities and for the City of Boston 40 percent of the disadvantaged will be members of a minority group.

Table 34  
Poverty Level Guidelines #  
1979

Family Size	Nonfarm Family*	Farm Family***
1	\$3,400	\$2,910
2	4,500	3,840
3	5,600	4,770
4	6,700	6,700
5	7,800	6,630
6	8,900	7,560

- # For all states except Alaska and Hawaii  
\* Add \$1100 for each additional family member  
\*\* Add \$930 for each additional family member

Source: Office of Management and Budget

In addition to the economically disadvantaged there are other groups that may be in need of manpower services. Among these are those employed part-time for economic reasons, the unemployed, and the long-term unemployed. An individual who is employed part-time for economic reasons is one who is working less than a full week and who would prefer full-time work if it were available. For fiscal year 1980 it is projected that there will be 50,477 such individuals in the Boston SMSA. Often, before these individuals are able to accept full-time work, they are in need of training, because the job skills required for such full-time work do not match those skills they utilized on their part-time jobs.

The long-term unemployed are individuals who have been unemployed for 15 weeks or longer. It is estimated that there will be 18,689 long-term unemployed in the Boston SMSA, 75 percent of whom will be male both white and nonwhite. For many of these individuals the reason for the extended duration of their unemployment can be traced to their particular job skills. Often they possess low level skills or have worked in occupations that are no longer in demand and will need either skill upgradings or retraining before they can become reemployed.

In all of the areas for which projections are available, the age group 16-19 is particularly hard hit by unemployment. In almost all of the subgroups, white, nonwhite, male and female, youth are projected to experience unemployment rates well above those for the subgroup as a whole. Thus youth unemployment can be viewed as a serious problem, and one which needs the attention of the various manpower programs.

Table 35

## POPULATION AND LABOR FORCE COMPOSITION PROJECTIONS

FISCAL YEAR 1980  
BOSTON SMSA

	Population	Labor Force	Employ	Unemploy	Unemploy Rate	Labor Force Participation Rate
TOTAL	2819159	1350316	1269297	81019	6.0	64.6
White Male	1212659	693453	654354	39099	5.6	78.6
0-15	330920	--	--	--	--	--
16-17)						
18-19)	102876	69849	62167	7682	11.0	67.9
20-24	124530	98959	90952	8007	8.1	79.5
25-34	150638	142766	134820	7946	5.6	94.8
35-44	130447	126423	121598	4825	3.8	96.9
45-64	259149	226129	218487	7642	3.4	87.3
65 +	114099	29329	26332	2997	10.2	25.7
White Female	1373770	563154	531719	31435	5.6	53.3
0-15	316736	--	--	--	--	--
16-17)						
18-19)	101688	77126	71147	5979	7.8	75.8
20-24	130774	102752	97912	4840	4.7	78.6
25-34	190512	112875	107526	5349	4.7	59.2
35-44	146131	82748	78974	3774	4.6	56.6
45-64	291984	166213	156788	9425	5.7	56.9
65 +	195945	21440	19372	2068	9.6	10.9
Nonwhite Male	105330	47839	41806	6033	12.6	74.1
0-15	40776	--	--	--	--	--
16-17)						
18-19)	9774	4683	3291	1392	29.7	48.0
20-24	10924	7780	6674	1106	14.2	71.2
25-34	17375	15387	13617	1770	11.5	88.6
35-44	9766	8922	8082	840	9.4	91.4
45-64	12616	10252	9459	793	7.7	81.2
65 +	4111	815	683	132	16.2	19.8
Nonwhite Female	127400	45870	41418	4452	9.7	52.8
0-15	40452	--	--	--	--	--
16-17)						
18-19)	9752	4996	4334	662	13.3	51.2
20-24	12922	7156	6278	878	12.3	55.4
25-34	25258	14033	12817	1216	8.7	55.6
35-44	14711	8416	7731	685	8.1	57.2
45-64	17170	10410	9497	913	8.8	60.6
65 +	7135	859	761	98	11.4	12.0

Table 36  
 Additional Planning Data Projections  
 Fiscal Year 1980  
 Boston SMSA

	Employed Part-time For Economic Reasons
TOTAL	50,477
White Male	18,976
White Female	26,054
Nonwhite Male	2,216
Nonwhite Female	3,231

	Economically Disadvantaged 18 Years and Over
TOTAL	198,168
White	165,272
Black	28,140
Other	4,756
Spanish	7,303

Table 37  
ADDITIONAL UNEMPLOYMENT PROJECTIONS

FISCAL YEAR 1980

BOSTON SMSA

	Unemployment	Unemployment Rate	Long-Term Unemployment	Number of Different Individuals Unemployed During Year
TOTAL	81,019	6.0	18,689	272,298
White Male	39,099	5.6	11,746	133,506
White Female	31,435	5.6	4,230	107,337
Nonwhite Male	6,033	12.6	2,187	18,099
Nonwhite Female	4,452	9.7	526	13,356

Table 38

## POPULATION AND LABOR FORCE COMPOSITION PROJECTIONS

FISCAL YEAR 1980

Boston CETA

	Population	Labor Force	Employ	Unemploy	Unemploy Rate	Labor Force Participation Rate
TOTAL	600,026	281,038	260,241	20,797	7.4	64.0
White Male	191,148	103,938	96,705	7,233	7.0	73.4
0-15	49,540	--	--	--	--	--
16-17 )						
18-19 )	17,547	11,718	10,489	1,229	10.5	66.8
20-24	28,424	21,318	19,372	1,946	9.1	75.0
25-34	24,437	22,851	21,209	1,642	7.2	73.5
35-44	15,742	14,895	14,094	801	5.4	94.6
45-64	34,127	28,192	27,027	1,165	4.1	82.6
65 +	21,331	4,964	4,514	450	9.1	23.3
White Female	230,440	106,164	100,729	5,435	5.1	60.0
0-15	47,356	--	--	--	--	--
16-17 )						
18-19 )	17,648	13,805	12,670	1,135	8.2	78.2
20-24	29,998	24,636	23,734	902	3.7	82.1
25-34	37,193	27,014	25,855	1,159	4.3	72.6
35-44	17,651	11,124	10,647	477	4.3	63.0
45-64	41,125	24,846	23,558	1,288	5.2	60.4
65 +	39,469	4,739	4,265	474	10.0	12.0
Nonwhite Male	79,350	36,030	31,362	4,668	13.0	76.2
0-15	32,051	--	--	--	--	--
16-17 )						
18-19 )	7,718	3,806	2,592	1,214	31.9	49.3
20-24	7,606	5,841	5,059	782	13.4	76.8
25-34	13,100	12,020	10,596	1,424	11.8	91.8
35-44	7,123	6,587	5,977	610	9.3	92.3
45-64	8,892	7,243	6,721	522	7.2	81.5
65 +	2,860	533	417	116	21.8	18.6
Nonwhite Female	99,088	34,906	31,445	3,461	9.9	52.0
0-15	31,953	--	--	--	--	--
16-17 )						
18-19 )	7,784	3,887	3,327	560	14.4	50.0
20-24	10,008	5,549	4,828	721	13.0	55.4
25-34	21,080	11,525	10,555	970	8.4	54.7
35-44	11,148	6,077	5,609	468	7.7	54.5
45-64	12,266	7,297	6,619	678	9.3	59.5
65 +	4,849	571	507	64	11.2	11.8

Table 39  
 Additional Planning Data Projections  
 Fiscal Year 1980  
 Boston CETA

	Employed Part-time For Economic Reasons
TOTAL	11,855
White Male	2,804
White Female	4,936
Nonwhite Male	1,662
Nonwhite Female	2,453

	Economically Disadvantaged 18 Years and Over
TOTAL	73,002
White	47,597
Black	22,704
Other	2,701
Spanish	4,878



Table 40  
 ADDITIONAL UNEMPLOYMENT PROJECTIONS  
 FISCAL YEAR 1980  
 BOSTON CETA

	Unemployment	Unemployment Rate	Long-Term Unemployment	Number of Different Individuals Unemployed During Year
TOTAL	20,797	7.4	5,134	65,430
White Male	7,233	7.0	2,416	21,673
White Female	5,435	5.1	554	19,370
Nonwhite Male	4,668	13.0	1,726	14,004
Nonwhite Female	3,461	9.9	438	10,383

Table 41  
POPULATION AND LABOR FORCE COMPOSITION PROJECTIONS  
FISCAL YEAR 1980  
EMHRDA

	Population	Labor Force	Employ.	Unemploy.	Unemploy. Rate	LFP* Rate
TOTAL	280,099	142,045	132,955	9,090	6.4	66.5
White Male	125,188	72,059	67,723	4,336	6.0	77.0
0-15	31,625	--	--	--	--	--
16-17 )						
18-19 )	9,174	6,313	5,545	768	12.2	68.8
20-24	15,057	10,773	9,996	777	7.2	71.5
25-34	20,071	17,769	16,506	1,263	7.1	88.5
35-44	14,821	14,274	13,766	508	3.6	96.3
45-64	22,698	19,940	19,067	873	4.4	87.8
65 +	11,742	2,990	2,843	147	4.9	25.5
White Female	140,206	63,084	59,010	4,074	6.5	57.5
0-15	30,471	--	--	--	--	--
16-17 )						
18-19 )	8,737	7,118	6,450	668	9.4	81.5
20-24	14,026	11,597	10,994	603	5.2	82.7
25-34	21,227	15,767	14,716	1,051	6.7	74.3
35-44	16,827	10,453	10,102	351	3.4	62.1
45-64	26,450	15,700	14,588	1,112	7.1	59.4
65 +	22,468	2,449	2,160	289	11.8	10.9
Nonwhite Male	7,267	3,693	3,340	353	9.6	74.0
0-15	2,279	--	--	--	--	--
16-17 )						
18-19 )	549	297	241	56	18.9	54.1
20-24	1,039	657	610	47	7.2	63.3
25-34	1,420	1,187	1,048	139	11.7	83.6
35-44	787	761	708	53	7.0	96.7
45-64	827	698	649	49	7.0	84.4
65 +	366	93	84	9	9.7	25.4
Nonwhite Female	7,438	3,209	2,882	327	10.2	60.3
0-15	2,119	--	--	--	--	--
16-17 )						
18-19 )	477	343	309	34	9.9	71.9
20-24	848	451	410	41	9.1	53.2
25-34	1,158	867	755	112	12.9	74.9
35-44	987	711	655	56	7.9	72.0
45-64	1,115	758	691	67	8.8	68.0
65 +	734	79	62	17	21.5	10.8

\* Labor Force Participation

Table 42  
Additional Planning Data Projections  
Fiscal Year 1980  
EMHRDA

	Employed Part-time For Economic Reasons
TOTAL	5,257
White Male	1,964
White Female	2,891
Nonwhite Male	177
Nonwhite Female	225

	Economically Disadvantaged 18 Years and Over
TOTAL	23,652
White	21,523
Black	1,443
Other	686
Spanish	515

Table 43  
ADDITIONAL UNEMPLOYMENT PROJECTIONS

FISCAL YEAR 1980

EMHRDA

	Unemployment	Unemployment Rate	Long-Term Unemployment	Number of Different Individuals Unemployed During Year
TOTAL	9,090	6.4	2,229	29,146
White Male	4,336	6.0	1,350	14,287
White Female	4,074	6.5	734	12,819
Nonwhite Male	353	9.6	108	1,059
Nonwhite Female	327	10.2	37	981

## B. Groups of Statutory Significance

Within the population there are certain groups on whom government funded programs are encouraged to focus. Among these groups are the economically disadvantaged, youth, minorities, handicapped, veterans, workers over 45 years of age, high school dropouts, persons with limited English-speaking ability and law offenders.

The Employment Service Automated Reporting System (ESARS) provides a degree of information on these groups, as those who are seeking employment come into Job Service offices to register. These reports indicate the number and characteristics of job applicants on file in the local offices.

ESARS provides data on applicants by sex, age, race, educational attainment, handicapped, veteran status, and poverty level. Table lists the local offices in the Boston SMSA and breakdown of their registered applicants by these characteristics. Table provides the total number of applicants registered in the SMSA, cross referenced by characteristics and services received, as of March 1979. Of the 113,490 registered applicants, 54 percent were females, 21 percent were under 22 years of age and 35 percent had less than 12 years of education. Both youth and high school dropouts represented a greater share of those placed as compared with their share of total registered applicants. Youth accounted for 46 percent of total individuals placed, and 37 percent of those placed had less than a high school education.

In addition to ESARS some information on some of these groups can be gathered from the survey of Selected Characteristics of the Insured Unemployed. This survey of unemployment insurance claimants is available on a SMSA basis, by local office area, and by CETA area. Table 47 provides some claimant characteristics for the Boston SMSA and for the local offices located in the SMSA taken from a survey of claimants that was conducted during December 1978.

Table 44  
CHARACTERISTICS OF APPLICANTS

March 1979  
Boston SMSA

CHARACTERISTICS OF APPLICANTS	REGISTERED APPLICANTS	INDIVIDUALS COUNSELED	PLACED AFTER COUNSELING	ENROLLED IN TRAINING	TOT. APPLIC. PLACED IN JO
Age - All Ages	113,490	3,603	586	643	20,85
Under 20 years	15,068	338	75	60	7,23
20 - 21	8,871	192	47	37	2,44
22 - 24	13,865	421	70	77	2,77
25 - 29	19,404	641	114	132	2,89
30 - 39	27,618	826	127	196	2,61
40 - 44	8,772	225	38	53	74
45 - 54	12,996	590	78	76	1,26
55 - 64	5,870	353	35	12	72
65 years or older	1,026	17	2	0	14
Sex					
Men	52,556	2,038	390	237	11,1
Women	60,934	1,565	196	406	9,6
Highest Grade of School Completed					
0 - 7	5,148	195	18	32	3
8 - 11	34,387	1,000	162	260	7,4
12	44,023	1,297	233	284	7,3
Over 12 years	29,932	1,111	173	67	5,6
Handicapped	5,159	620	106	46	86
Welfare	41,664	1,065	190	419	1,1
Ethnic Group					
White	90,576	3,208	513	483	17,07
Black	16,118	273	56	91	2,90
Other	946	23	3	6	16
Spanish Surname	5,561	96	14	61	66
Vietnam - ERA Veteran	3,526	187	47	21	81

Table 45  
Cities and Towns Served By The Local Offices  
In The  
Boston SMSA

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<u>Boston Office</u>	<u>Norwood Office</u>	<u>Woburn Office</u>
Boston	Canton	Bedford
Brookline	Dedham	Burlington
	Dover	North Reading
<u>Cambridge Office</u>	Medfield	Reading
Arlington	Norfolk	Stoneham
Belmont	Norwood	Wilmington
Cambridge	Sharon	Winchester
Somerville	Walpole	Woburn
	Westwood	
<u>Chelsea Office</u>	<u>Quincy Office</u>	
Chelsea	Braintree	
Revere	Cohasset	
Winthrop	Hingham	
<u>Framingham Office</u>	Hull	
Ashland	Milton	
Framingham	Norwell	
Holliston	Quincy	
Hopkinton	Scituate	
Natick	Weymouth	
Sherborn		
Westboro	<u>Salem Office</u>	
	Beverly	
<u>Lynn Office</u>	Danvers	
Lynn	Hamilton	
Lynnfield	Marblehead	
Nahant	Middleton	
Saugus	Peabody	
Swampscott	Salem	
	Topsfield	
<u>Malden Office</u>	Wenham	
Everett		
Malden	<u>Waltham Office</u>	
Medford	Lexington	
Melrose	Lincoln	
Wakefield	Waltham	
	Wayland	
<u>Newton Office</u>	Weston	
Needham		
Newton		
Watertown		
Wellesley		

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Table 46  
 Characteristics of Applicants  
 By Local Office  
 March 1979  
 Boston SMSA

	Total	Female	Disadvantaged	Veteran	Minority	Under 22	Over 45	Mandicapped
<u>LOCAL OFFICES:</u>								
Boston	17,090	6,989	7,517	2,628	7,396	5,272	2,320	1,048
Cambridge	5,856	2,645	1,047	667	1,169	1,464	735	174
Chelsea	5,129	1,937	647	864	434	1,499	1,053	286
Framingham	5,039	2,046	429	903	254	1,152	940	222
Lynn	5,006	1,939	1,132	1,055	422	1,264	944	472
Malden	8,206	3,575	1,654	1,314	343	2,169	1,550	333
Newton	3,536	1,596	373	545	222	639	641	147
Norwood	3,740	1,756	511	418	199	1,353	591	114
Quincy	6,577	2,955	2,368	1,095	102	2,616	911	301
Salem	5,482	2,162	1,241	1,175	178	1,211	1,028	265
Waltham	7,960	3,224	863	1,353	580	1,109	1,405	314
Woburn	5,447	2,236	477	940	120	1,642	1,005	322

Source: ESARS Table A22



Table 47  
 Claimant Characteristics  
 By  
 Local Office  
 Boston SMSA  
 December 1978

	Total	Female	Under 25	Non- white	Spanish Surname	Unemployed Over 20 Weeks
BOSTON SMSA	28,046	11,377	5,120	2,255	337	4,932
Boston Office	5,372	2,194	883	1,773	252	1,072
Cambridge Office	3,080	1,332	551	208	46	604
Chelsea Office	1,473	537	278	26	18	178
Framingham Office	1,053	446	169	28	0	141
Lynn Office	1,735	660	319	31	3	322
Malden Office	2,776	1,125	521	39	3	541
Newton Office	1,780	795	253	43	0	308
Norwood Office	1,529	680	268	14	0	237
Quincy Office	3,202	1,214	658	29	5	621
Waltham Office	782	348	130	6	0	106
Woburn Office	1,562	544	332	26	4	157
Salem Office	1,855	751	345	22	11	332

Source: Selected Characteristics of the Insured Unemployed

Note: Does not add due to survey methodology

c. Training Programs

CETA: The Comprehensive Employment and Training Act of 1973 was enacted to provide job training and employment opportunities to economically disadvantaged, unemployed, and underemployed persons in order to maximize employment opportunities and enhance self sufficiency. CETA offers a number of types of opportunities under Titles II, IV, and VI of the Act. Title II provides training, education, work experience, upgrading, retraining and public service employment to prepare jobless persons for unsubsidized employment. Title IV covers youth programs such as the Job Corps, Summer Youth Programs, the Youth Incentive Entitlement Pilot Projects, the Youth Community Conservation and Improvement Projects and Youth Employment and Training Programs. Title VI offers public service employment during periods of high unemployment.

WIN: The Work Incentive Program (WIN) is a federally funded program which is designed to assist recipients of Aid to Families with Dependent Children (AFDC) in obtaining job skills and opportunities. The program provides these individuals with job counseling, training programs and job development and placement assistance. Table 48 contains information regarding WIN registrants in the Boston SMSA for the period October 1, 1978, through March 31, 1979. During that time period 41,091 individuals were registered for services in the WIN program.

Over fifty percent of those registered with WIN were between the ages of thirty and forty-four. Almost three out of four registrants were female and 50 percent had less than a high school education. During the first two quarters of fiscal year 1979, 2,160 WIN registrants went to work. The characteristics of those who entered employment follow fairly closely to the overall characteristics of the registrants with one major exception. Although males accounted for only 25 percent of all registrants, they represented almost 41 percent of those who obtained employment.

Table 48  
Selected WIN Registrant  
Characteristics and Activities  
Boston SMSA  
March 1979

	Registrants	Entered Employment	Percent Entered Employment
<b>TOTAL</b>	<b>41,091</b>	<b>2,160</b>	<b>100.0</b>
<u>Age</u>			
Under 20	2,042	132	6.1
20 - 29	10,303	576	26.7
30 - 34	20,909	1,168	54.1
Over 45	7,837	284	13.1
<u>Sex</u>			
Male	10,511	882	40.8
Female	30,580	1,278	59.2
<u>Education</u>			
0 - 7 years	3,465	119	5.5
8 - 11 years	17,305	773	35.8
12 years	16,154	968	44.8
Over 12 years	4,167	300	13.9
<u>Ethnic</u>			
White	27,534	1,694	78.4
Black	9,649	341	15.8
Hispanic	3,412	112	5.2
Other	380	12	0.6
<u>Employment Status</u>			
Full-time	1,109	59	2.7
Part-time	1,658	113	5.2
Not Working	38,324	1,988	92.1

Note: Ethnic information not available for all registrants.



M35        Mass. Division of  
M38E.A    Employment Security.  
1980       Annual Planning  
           Information Report  
           Fiscal Year 1980  
           Boston SMSA.

M35  
M38E.A  
1980       Massachusetts Division  
           of Employment Security.

